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ABSTRACT

In 1981 and 1982, a group of 5 organizations conducted a coordinated study of public online catalog users and nonusers in 31 research, academic, community college, public, and governmental libraries with 17 different online catalogs. It was found that: (1) the most important user characteristic linked with success and satisfaction in using online catalogs was frequent experience with the online catalog itself; (2) the kind of search being performed was also important as a determinant of success and satisfaction; (3) users adapt their search approaches to the capabilities and limitations of the online catalogs used; and (4) the form and nature of training and user assistance were important, with users who received at least some initial training and assistance showing more satisfaction and success than those who did not. This report presents a detailed data analysis of the project, covering statistical techniques employed and the findings related to users, search tasks, the online system's user interface, and the library setting. Extensive appendices provide a 25-item project bibliography, a sample user questionnaire, tables showing regression analyses for all user variables from the 4 largest academic systems (University of California, Ohio State University, Syracuse University, and Northwestern University), and bar charts with information on user variables from 13 libraries. (ESR)

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DETAILED DATA ANALYSIS
OF THE CLR ONLINE CATALOG PROJECT

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

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A Final Report Submitted to

THE COUNCIL ON LIBRARY RESOURCES

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March 1984

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Gary S. Lawrence

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Preface

The Bibliographic Service Development Program of the Council on Library Resources funded a cooperative, multi-year, in-depth investigation into the issues surrounding public access online catalogs. This project, called the Online Catalog Public Access Project, conducted a survey of users and non-users in 31 libraries in the United States. The studies were performed by:

- o J. Matthews and Associates, Inc.
- o Library of Congress
- o Online Computer Library Center, Inc.
- o Research Libraries Group, Inc.
- o University of California, Division of Library Automation.

The project produced a number of reports (see Appendix 1 for a complete listing). Of particular note is a book, called Using Online Catalogs: A Nationwide Survey, published by Neal-Schuman, which integrates and analyzes the findings of four of the final project reports.

Section 1

EXECUTIVE SUMMARY

The purpose of this project was to provide decision makers with information which will allow them to choose strategies which will increase the utilization of the library and its collections. Increasing frequency and quality of use of the online catalog is thought to increase the utilization of the library and its collections. Therefore, user satisfaction with the online catalog is vital. This project identifies characteristics of users, tasks, the library setting, and the system interface which affect user satisfaction.

One objective of the data analysis was to define various characteristics in the model of online catalog use (presented in detail in a subsequent part of this section) which, alone or in combination with characteristics of other components, affect the success of the catalog search. This objective was accomplished by using statistical tests to identify these characteristics and to map their interactions through each component of the model.

Another important objective of this project was to determine the extent to which data pertaining to each online catalog system was consistent or varied when compared to the aggregate data analysis.

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The Online Catalog Conceptual Model

The underlying simple conceptual model of online catalog use that has guided this project suggests:

USERS, with various characteristics, come to the library to perform various TASKS. Entering a specific LIBRARY SETTING (which includes both physical features and service features such as training, printed aids and staff assistance), they use the online catalog's SYSTEM INTERFACE to access the database in order to locate the materials that will satisfy their task requirements.

1. Users are defined by:
   a) Demographic characteristics
   b) A priori attitude to the catalog
   c) Experience with the library and its catalogs
2. Tasks are defined by:
   a) The application (the "reason" for the search)
   b) The information brought to the search
3. The Library Setting is defined by:
   a) The physical setting for access to the online catalog
   b) Training and assistance features
4. The System Interface is defined by:
   a) Access points - types of searches
   b) Search methods - character string vs. keyword
   c) Search complexity - Boolean within and/or across indices, set searching, backup.

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It was the intent of this analysis of data to identify the salient and generalizable characteristics of online catalogs, in each of these areas, to guide library decision-makers toward choices that increase the utilization of the online catalog and the collections of the library.

PROJECT FINDINGS

It is important to note that the results of the analysis for each of the online catalog systems are remarkably similar to those of the aggregate analysis. This finding is indeed good news in that the results of the aggregate analysis have been published and are being referred to frequently by library practitioners. Thus, this analysis of individual systems confirms the results of the aggregate analysis.

However, it is also somewhat disappointing that some stronger distinctions did not emerge, as we had hoped that a closer examination of the data would reveal differences, especially differences with regard to the system interface, which would lead to some exciting insights. But, alas, our expectations were dashed against the rocks of reality, or the reams of computer printouts produced during the course of this project.

The one significant finding that did emerge as a result of this project is that a fresh perspective is needed to assist the user of the online catalog with subject searching. While the

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amount of subject (topic) searching varies, subject searching clearly is the dominant type of search entered by most users of the online catalog.

Thus, we have suggested that a different system interface is needed for subject searching as opposed to a known-item search. This suggestion, coupled with the two modes of system interface, i.e., expert vs. novice, (command vs. menu), usually provided by designers of the online catalog means that a minimum of four system interfaces may be needed. These four modes of system interface are reflected in the following system interface matrix:

	Type of User: Novice	Expert
Type of search:		
Subject	Novice/ Subject search	Expert/ Subject search
Known item	Novice/ Known item seach	Expert/ Known item search

Based on the results of this analysis, we are also suggesting that the subject search should display the headings that are retrieved in response to a subject heading request.

In summary, the four principal findings of this project include:

1. The user characteristics that are most closely linked with success and satisfaction in using the online catalog are those that relate to experience with the library and its catalogs; the most important of these is frequent experience with the online catalog itself. Other user characteristics, like age, sex, and academic status, affect attitudes indirectly, by affecting the frequency with which patrons use the library and its services.

2. Designers of online catalogs should develop interfaces that differentiate by the kind of search being performed as well as the level of experience of the user performing the search. The search task is as important as the experience of the user as a determinant of success and satisfaction. At least two key features of online catalogs, the display of headings and the use of keyword searching, are shown to have different effects depending on whether users are conducting topical or author-title searches.

3. User attitudes adapt (perhaps rapidly) to the capabilities and limitations of the online catalogs they use. Users who search in systems supporting keyword capabilities tend to search by topic more frequently than in systems without this capability. Approaches to the online catalog appear to be conditioned by the degree of experience and familiarity with the card catalog, with experienced card catalog users being more likely to perform author-title searches. As discovered by Frohmberg

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and Moffett[1], users adjust their attitudes to a new form or level of library service rather rapidly, so that even when the quality of service can be shown to have improved, over a relatively short period of time (at Oberlin, 3 to 4 years), measured attitudes return to levels that existed before the service was introduced.

4. The form and nature of training and user assistance are important. Those who receive at least some initial training and assistance are more satisfied and successful than those who do not; the best sources appear to be library staff, friends or other near by users of the catalog, and online assistance. Likewise, those who neither sought nor received assistance during the search are less likely to report satisfaction or success; the most effective forms of assistance appear to be from printed or online sources.

Section 2

THE ANALYSIS

Readers not interested in a discussion of the statistical techniques employed in this study may wish to skip to the next Section (page 15); the beginning of the reporting of findings. The analysis began in early August 1983 with the first component of the model: the user. This component is comprised of three categories of user characteristics: 1) Demographic; 2) A priori attitude toward the online catalog; and 3) Experience with the library and its catalogs.

The first task in the analysis involved classification of the items on the User Questionnaire for this component of the model. The classification is as follows:

Demographic Characteristics

Question Number	Characteristic
54	My age group is
55	Sex
56	Current or highest grade completed
57	My academic area is (discipline)
58	Main focus of my academic work
59	Present affiliation (academic status)

A Priori attitude toward the online catalog

Question Number	Item
9	General attitude toward the catalog
10	Comparison of computer catalog to other catalogs
52	Heard about the computer catalog from
53	I learned to use this computer catalog

Experience with the library and its catalogs

Question Number	Item
48	I come to this library (frequency of use)
49	I use the computer catalog (frequency)
50	I use the library's other catalogs
51	I use another computer system

Crosstabulations

As proposed, data analysis began with a review of the frequency distributions of user characteristics for the four largest academic library systems examined: University of California, Ohio State University, Syracuse University and Northwestern University. This review was undertaken to determine how the variables might best be ordered in SPSS crosstabulation runs to avoid cell size problems, beginning with the items in the demographic category. Cell size warnings resulted for at least one of the four systems for any crosstabulation of user variables that was conducted. To illustrate the cell size problem, consider only

two questions from the first ("demographic") group, Questions 54 and 56. Question 54 (age group) has eight categories; Question 56 (highest grade) has four. The crosstabulation of the two questions has 4 times 8, or 32 cells. Now add 10 categories from Question 57, academic area or discipline. Suddenly there are 320 cells. Even with 1000 questionnaires, we can expect an average of only 3.13 cases per cell, too few to provide a reliable basis for statistical inference.

It seemed likely that additional crosstabulations of characteristics would cause substantial cell size problems. It was apparent that the analysis could not effectively proceed along these lines and still achieve the proposal's objective. If the crosstabulation of items were to continue to be the methodology of choice, some values or variables would have to be recoded or dropped from the "critical path" at this early stage of the analysis. We were concerned that recoding variables at this point would camouflage effects which might otherwise be evident later in the analysis. Lacking any clear or consistent guidelines for recoding or restructuring the variables, and not being able to proceed with the crosstabulation of variables due to cell size problems, we sought another analytical tool.

Analytical Criteria for Selecting Variables

Having identified the importance of selecting only "important" variables for the analysis, it became necessary to determine how to decide when a variable was "important." Because our focus here is

the success and satisfaction of the user (as was true of the Council's Online Catalog Public Access Project generally), we selected the five questions from the User Questionnaire (see Appendix 2 for a copy of the user questionnaire) dealing with search success, user satisfaction, and attitude toward the online catalog as our "criterion or standard measurement variables." Table 1 shows the average score of each of the libraries included in this analysis on each of the five criterion variables. It is notable that the range of average scores among the 13 library system is extremely limited in comparison to the measurement scale for these five variables. Identifying causes of success or failure is difficult when responses are grouped so closely on the measurement scale. Within these narrow ranges however, there remain some statistically identifiable differences as earlier analysis has shown.

Our intention was to use the five criterion variables to identify important user characteristics, that is, characteristics that made a statistically measurable and reliable difference in user success and satisfaction. The use of the criterion variables also opened the door to additional and more powerful statistical techniques that could help identify the relationships between variables. These techniques, and the results of their application, are described below.

Analysis of Variance

Analysis of Variance (ANOVA) is a statistical procedure to determine the strength of a relationship among variables.

Table 1

Average Response Values*

	User Questionnaire				
	#5 Amount Found	#6 Satisfaction of search	#7 Other things of interest	#9 Overall attitude	#10 Compared to Card Catalog
SYRACUSE	2.6376	1.9453	1.5794	1.4515	1.3506
PIKES PEAK	2.8133	2.1749	1.5861	1.6533	1.5815
OHIO STATE	2.4152	1.7404	1.4807	1.3979	1.2413
NORTHWESTERN	2.5025	1.6471	1.6223	1.3295	1.2669
MISSION	2.4371	1.6429	1.4902	1.2549	1.1027
MANKATO	2.4784	1.6536	1.4464	1.2374	1.1107
LIBRARY OF CONGRESS	2.5263	1.6640	1.3601	1.2738	1.2043
IOWA CITY	2.3868	1.6253	1.4619	1.5995	1.4766
EVANSTON	2.4960	1.6787	1.4798	1.4320	1.3881
UNIV OF CALIF	2.9437	2.1992	1.5138	1.4027	1.4607
DALLAS PUBLIC	2.3284	1.7280	1.4203	1.5328	1.3881
CLAREMONT	2.6531	1.6939	1.5833	1.5102	1.2955
STEVEN F. AUSTIN	2.7182	1.9358	1.4312	1.4455	1.3663
MIN.	2.37	1.62	1.36	1.23	1.10
MAX.	2.94	2.20	1.26	1.65	1.58

* In all cases, a lower value indicates a higher level of preceived success or satisfaction

The ANOVA technique used five success and satisfaction variables (questions #5,6,7,9,10 from the User Questionnaire) as dependent variables. ANOVA tests, using these five "Criterion Variables," allowed us to determine the presence or absence of effects of certain user characteristics without having to delete or recode data to avoid cell size problems.

Regression and Discriminant Analyses

The limitation on the number of variables (five) which can be included in the SPSS ANOVA procedure prevented us from using this tool to carry the analysis forward to include additional user characteristics. Using multiple regression as a method of analysis of variance allowed us to add the remaining User variables to the analysis. However, the technique of basic regression analysis assumes that each variable is measured on a continuous scale (like, for example, height or weight). When the regression variables are coded in terms of categories (e.g., academic discipline), recoding is required to permit their use in regression analysis. Even when the values have a natural order (e.g., frequency of library use, when measured in categories like "weekly," "monthly," etc.) they often require recoding. Such was the case for the CLR questionnaire data.

In these instances, categorical variables are recoded into sets of "dummy variables." A dummy variable has one of only two values, either "true" or "false," or in numerical terms, "1" or

"0." Binary dummy variables comply with the mathematical assumptions of regression analysis, and can therefore be used in lieu of the categorical variables from which they are derived. Dummy variables were created by treating each category or value of the nominal level variable as a separate variable, and then assigning an arbitrary score depending on their absence or presence. A value of 0 or 1 is assigned to the new variables, allowing the new variables to be included in the regression equation. The creation of the dummies for the User variables can be reviewed in the code which preceeds the regression results included as Appendix 3 to this report. It should be noted here that there is always one less dummy variable than the number of possible discrete values in the original variable. Question 54, for example, has eight possible values, and will create seven new dummy variables in this analysis. One value of the original variable therefore is not represented by a "dummy," and becomes the "base value" for the regression analysis. The full significance of this matter will be discussed a bit later; for now, however, it is important to note that in all cases we used the first value of each variable (typically, choice "a") as the base value in constructing the set of dummy variables.

Ten regression analyses were run, beginning with Item 48 (frequency of library use) and Item 49 (frequency of online catalog use) as independents. Variables from the list of user characteristics were added with each new run. Patterns and variations began to emerge.

Application of the technique of discriminant analysis provided confirmation for the patterrs and variations observed in the regression runs. In particular, the discriminant analyses provided information on interrelationships of User characteristics for the four academic systems. The results of both the regression and discriminant analyses are discussed in detail in the sections which follow.

The Role of Test Libraries in the Analysis

As noted previously, the analysis focused initially on four large academic libraries, and for the most part analytical techniques and assumptions were tested on these four for reasons of computational economy (see Appendix 3 for the results of the regression analysis of all user variables for the four larger academic systems). In the discussion that follows, we will discuss some detailed findings from these four libraries (and others as well, if detailed test analyses were conducted), including consideration of variables that proved to have no significant effect on users' success or satisfaction. Our discussion of other library systems will usually present less detail, and for the most part includes only the most important variables. Because the four large academic libraries were used to cull out the few key variables, we have taken the liberty of discussing detailed findings for these institutions. Before a determination was made about the relative importance of a variable, however, its effect on success and satisfaction was analyzed for other institutions, including public libraries.

Section 3

THE USER

Rather than present a detailed account of what is known about the user of the online catalog, the reader is referred to the summary report of the Council on Library Resources Online Catalog Project (see Matthews et al, 1983).[2] A brief summary of typical user characteristics is presented here as an introduction to the additional information learned about the user as a result of this project.

> Online catalog users are frequent library users, consult the online catalog frequently, and are only moderate users of other catalogs (card, COM, etc.) in the library. The user of the online catalog is not necessarily a user of other computers; he or she is a young adult and is highly educated. Within academic libraries, the majority of users are undergraduate students, from all academic disciplines, who are using the online catalog for course-related work.[3]

The series of regression and discriminant analyses of the data on online catalog user characteristics have allowed us to identify some common effects and some independent effects which vary from system to system.

COMMONALITIES IN EFFECTS ON USER SATISFACTION

What appear to be consistent across the four academic systems, across the Criterion Variables, and in the results of both the regression and discriminant analyses, are the effects of frequency of library use (Item 48), frequency of online catalog use (Item 49) and frequency of use of the library's other catalogs (Item 50) on user satisfaction (as measured by the Criterion Variables).

Regression Results

When all variables representing user characteristics are included in the regression analysis, Items 48, 49, and 50 appear to be most consistent among the four systems in the frequency and clustering of their effects. These variables constitute the core of that category in the model which represents experience with the library and its catalogs. Figure 1 presents the results of the regression analysis of all user variables. Minuses appearing in the table should be interpreted as effects of more user satisfaction and pluses as effects of less user satisfaction. Note the density of effects for all four systems for Items 48, 49 and 50. This density is in obvious contrast to the effects which result from other user characteristics.

The effects were consistent throughout the series of regression analyses run. Figure 2 presents the results of an earlier analysis. Regardless of the number of user characteristics included in the analysis, the tendency of effects to cluster around values of Items, 48, 49, and 50 (the "core" variables) remains.

FIGURE 1

Results of Regression Analysis for User Characteristics for Four Largest Academic Systems (By Systems - All Variables)

Question	Description	DLA 5	DLA 6	DLA 7	DLA 9	DLA 10	SYR 5	SYR 6	SYR 7	SYR 9	SYR 10	OHI 5	OHI 6	OHI 7	OHI 9	OHI 10	NOR 5	NOR 6	NOR 7	NOR 9	NOR 10
RQ53A	FROM A FRIEND	-	-						-				+								
RQ53B	BY PRINTED INSTR									-		+		+							
RQ53C	BY INSTR ON TERMINAL				-																
RQ53D	FROM LIBRARY STAFF		+														-				
RQ53E	FROM LIBRARY COURSE	-																			
RQ53F	AUDIO-VISUAL PROG																				
RQ53G	BY MYSELF											+	+		+						
RQ55	MALE				-														-	-	-
RQ58A	COURSE WORK														-	-					
RQ58B	TEACHING		+									-									
RQ58C	RESEARCH			-					-										+		
RR48B	LIBUSE WEEKLY													+							-
RR48C	LIBUSE MONTHLY														+	+					
RR48D	LIBUSE INFREQ	+	+	+	+	+									+	+					
RR49B	OLCUSE MOSTLY	-	-													-	-				
RR49C	OLCUSE OCCAS	+	+	+	+	+				+			+		+	+				+	
RR49D	OLCUSE RARE	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
RR49E	OLCUSE NEW	+								+			+	+	+		+				
RR50B	CATUSE MOSTLY				+	+				+	+		+		+	+		+		+	
RR50C	CATUSE OCCAS		-			-				-	-					+				+	+
RR50D	CATUSE RARE					-				-	-				-	-				-	-
RR50E	CATUSE NEVER					-				-	-					-				-	-
RR51B	CPTRUSE WEEKLY																				
RR51C	CPTRUSE MONTHLY																				
RR51D	CPTRUSE QRTLY								+												
RR51E	CPTRUSE ANNUAL																				
RR51F	CPTRUSE NEVER		+			+						+	+								
RR52B	DISCOV LIBRARY TOUR											-									
RR52C	DISCOV ARTICLE-ANNOU											-			+						
RR52D	DISCOV INSTRUCTOR																				
RR52E	DISCOV FRIEND - FAMI	+	+																		
RR52F	DISCOV LIBRARY STAFF																				
RR54A	14 AND UNDER																				
RR54C	20 - 24 YEARS																				
RR54D	25 - 34 YEARS																				
RR54E	35 - 44 YEARS																				
RR54F	45 - 54 YEARS	+	+																		
RR54G	55 - 64 YEARS																				
RR54H	65 AND OVER				+		-	-													
RR56A	GRADE SCHOOL	-		-																	
RR56C	SOME COLLEGE																				
RR56D	COLLEGE GRADUATE			+		+	+														
RR57B	PHYS-BIO SCIENCES											-									
RR57C	SOCIAL SCIENCES								+												-
RR57D	BUSINESS-MANAGEMENT				-																
RR57E	EDUCATION																				
RR57F	ENGINEERING													-	-	-	+				
RR57G	MEDICAL-HEALTH SCIEN											-		-							
RR57H	LAW												-								
RR57I	MAJOR UNDECLARED																				
RR57J	INTERDISCIPLINARY																				
RR59B	JUNIOR-SENIOR												-								
RR59C	GRAD MASTER		-					+	+												
RR59D	DOCTORAL									+								+			+
RR59E	GRAD PROF															-					
RR59F	FACULTY	+							+												
RR59G	STAFF							-	-												
RR59H	OTHER USER																				

User Questionnaire Number

FIGURE 2

Results of Regression Analysis for User Characteristics for Four Largest Academic Systems (By Systems)

Question	Description	DLA	SYR	OHI	NOR
		5 6 7 9 10	15 6 7 9 10	15 6 7 9 10	15 6 7 9 10
RR48B	LIBUSE WEEKLY			+	-
RR48C	LIBUSE MONTHLY	+		+ +	
RR48D	LIBUSE INFREQ	+ + + +		+ +	
RR49B	OLCUSE MOSTLY	- -	+		- -
RR49C	OLCUSE OCCAS	+ + + + +	+ +	+ +	+
RR49D	OLCUSE RARE	+ + + + + + + +	+ + + + + + + +	+ + + + + + + +	+ + + +
RR49E	OLCUSE NEW	+	+ + +	+ + +	
RR50B	CATUSE MOSTLY	+	+ + +	+	+ +
RR50C	CATUSE OCCAS	- -	- -	+	+ +
RR50D	CATUSE RARE	-	- -	- -	- -
RR50E	CATUSE NEVER	-	- -	-	- -
RR51B	CPTRUSE WEEKLY				
RR51C	CPTRUSE MONTHLY				
RR51D	CPTRUSE QRTLY		+		
RR51E	CPTRUSE ANNUAL				
RR51F	CPTRUSE NEVER	+	+ +		
RR52B	DISCOV LIBRARY TOUR		-		
RR52C	DISCOV ARTICLE-ANNOU		-	+	
RR52D	DISCOV INSTRUCTOR				
RR52E	DISCOV FRIEND - FAMI	+			
RR52F	DISCOV LIBRARY STAFF				
RR57B	PHYS-BIO SCIENCES				
RR57C	SOCIAL SCIENCES	+	+		-
RR57D	BUSINESS-MANAGEMENT	- +			
RR57E	EDUCATION				
RR57F	ENGINEERING	- -		- - - +	-
RR57G	MEDICAL-HEALTH SCIEN			- -	
RR57H	LAW		-		
RR57I	MAJOR UNDECLARED				
RR57J	INTERDISCIPLINARY				
RR59B	JUNIOR-SENIOR		-		
RR59C	GRAD MASTER	+ +			
RR59D	DOCTORAL		+	+ +	+
RR59E	GRAD PROF	+			
RR59F	FACULTY	+ +	+	-	+
RR59G	STAFF	- -			
RR59H	OTHER USER				

User Questionnaire Number

The effects of the "core" variables are also consistent across criterion variables, regardless of the inclusion of other user characteristics. Figure 3 presents the same regression results as Figure 1, but in a format which allows comparison of effects for Criterion Variables.

Figure 4 is a listing of all those user characteristics which enter the regression equation. In most cases, the "core" variables comprise a substantial protion of all significant user characteristics. In many cases, they consititute more than half of the values entering the equation.

For Criterion Variable 5 (In this search I found....) we see that values of Item 49 (frequency of online catalog use) often enter the equation - see Figure 4. Of particular note is the consistent appearance of the value 49D, which represents infrequent online catalog users. (With only two exceptions, all values of the "core" variables which enter the regression equations represent infrequent or first-time users.)

Earlier, we mentioned that in the dummy-variable regression analysis one value of the original categorical variable is not represented by a "dummy," and therefore becomes the "base value" in the analysis. We also mentioned that the "first" value was consistently used as the base in this analysis. In the case of Question 49, the "first" value is 49A, "I use this computer catalog every library visit." Therefore, the most frequent users of the online catalog become the statistical "base" against which we

FIGURE 3

Results of Regression Analysis for User Characteristics
for Four Largest Academic Systems
(By Criterion Variables)

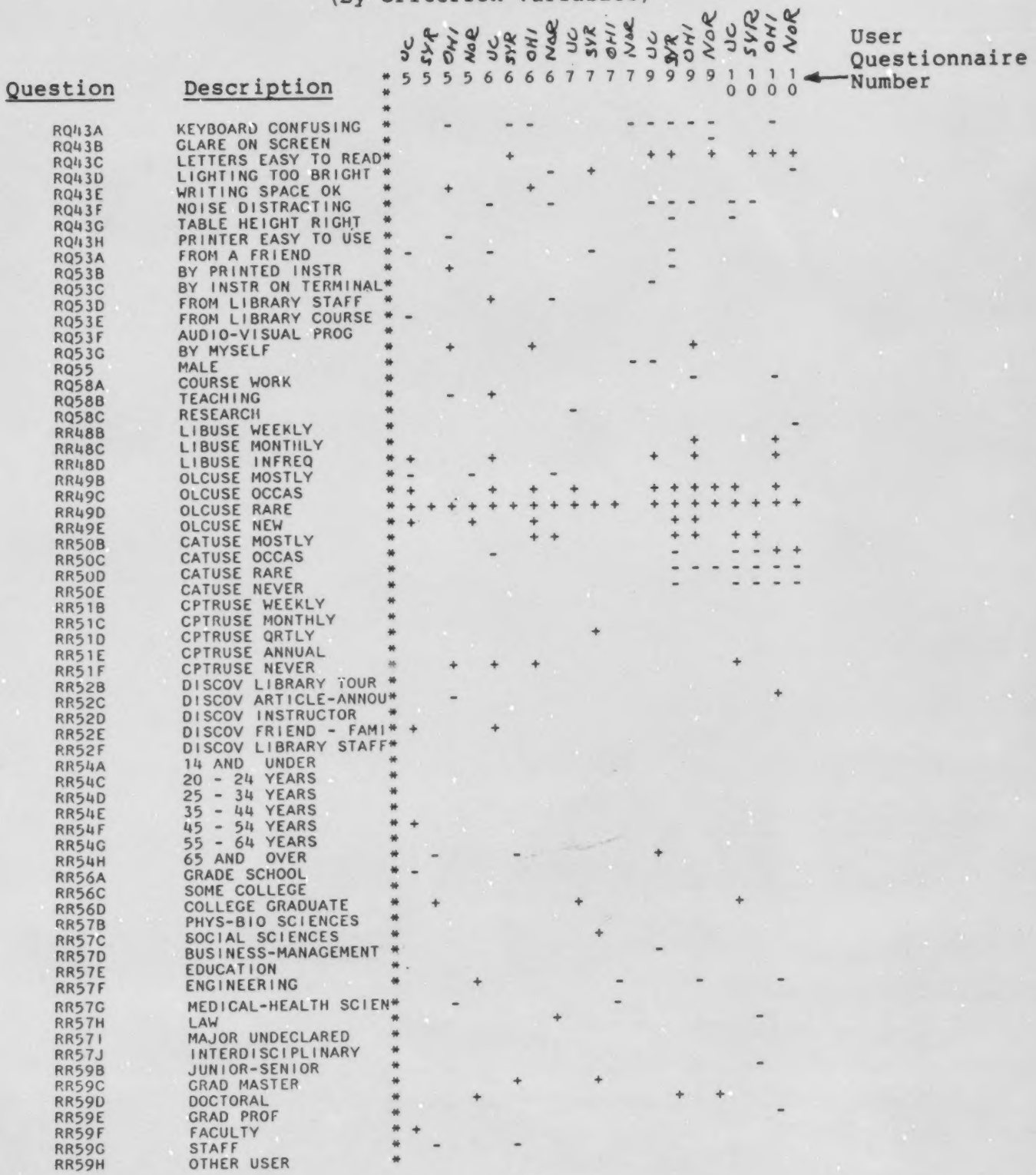

FIGURE 4

REGRESSION ANALYSES OF USER CHARACTERISTICS

	CALIFORNIA		SYRACUSE		OHIO STATE		NORTHWESTERN	
	CORE	NON-CORE	CORE	NON-CORE	CORE	NON-CORE	CORE	NON-CORE
CRITERION VARIABLE 5 Amount found	48D 49C 49D 49B 49E	53A 53E 56A 52E 52E 59F	49D	59G 54H 56D	49D	57G 57B 51F 52B 58B 53B 52C 53G	49D 49E 49B	57F 59D
CRITERION VARIABLE 6 Satisfaction of Search	50C 49C 49D 48D 49B	58B 54F 52E 53A 53D 51F 59C	49D	59C 59G 54H	49D 49C 49E 50B	51F 53G 53A	49B 50B	53D
CRITERION VARIABLE 9 Attitude toward the computer catalog	49D 49C 48D 50B	54H 53C 55(MALE) 57D	49D 50D 50E 50C 49E 49C	53B 59D	49D 48D 48C 49C 50B 50D	57F 58A 53G	50D 49D 49C 50C 50E 50B	59D 55(MALE)
CRITERION VARIABLE 10 Compared to card catalog	49C 49D 50C 50E 48D	56D 51F	50D 50E 50C 49D	57H 59B	50D 48C 49D 50E 50C 49D 49C	58A 52C 59E 57F	50D 50E 50C 49D 48B	55(MALE) 57C

measure differences in user satisfaction. In this case, respondents who use the online catalog rarely (i.e., marked 49D) show statistically reliable differences in user satisfaction from the most frequent online catalog users. Respondents who use the catalog almost every library visit or occasionally (49B and C) are not statistically different from very frequent users, although they may be different from infrequent users or from each other. It follows from this that changing the choice of "base value" may change the regression results. This possibility was examined by testing several other choices of base values for each of the three core variables; it was discovered that different base values did not have an appreciable effect on the statistical results.

The same pattern is evident for Criterion Variable 9 (attitude toward the online catalog). Infrequent and first-time use of online and other catalogs has some relationship to user satisfaction.

For Criterion Variable 10 (comparison of the computer catalog to the library's other catalogs), we find similar patterns. The effects of the "core" variables constitute at least half of all the effects noted for Criterion Variable 10 for all four systems.

Regardless of the number or nature of the other user variables included in the regression equations, it is generally a value of a "core" variable which enters the equation on the first step. Those variables (in this case, values) which enter a regression equation on the first step are those having the highest simple correlations.

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These values are generally consistent across systems for criterion variables. Refering to Figure 4 again, value 49D (rare use of the online catalog) is first for Syracuse, Ohio State and Northwestern for Criterion Variable 5. For Criterion Variable 6, it remains first for Syracuse and Ohio, and 49B (use of online catalog almost every visit) enters first for Northwestern. For Criterion Variable 9, 49D enters first for University of California, Syracuse and Ohio State, and second for Northwestern. For Criterion Variable 10, it is 50D (rare use of library's other catalog) which enters first for Syracuse, Ohio State and Northwestern. As noted above, there is a significant relationship between infrequent use of online and other library catalogs and user satisfaction.

The series of regression analyses indicates that the most consistent effects for the user component of the model across systems and criterion variables are associated with Items 48 (use of library), 49 (use of computer catalog) and 50 (use of library's other catalog). Effects are generally associated with values which represent infrequent or first time use of libraries, online and other library catalogs.

Additional, independent effects were noted for each of the four academic systems. These are discussed below, system by system.

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Discriminant Analyses

Discriminant analyses were also run on the user characteristics for all four academic systems. The purpose of using this analytical technique was to investigate the functional grouping of the variables (rather than all values) for each system. Review of these functional groupings provided another perspective on the relationships we were seeing among the variables in the regression analyses. The results of the discriminant analyses confirm the consistency across systems and Criterion Variables of the effects of the "core" variables. Figure 5 is a listing of the significant user characteristics by Criterion Variables. The consistency of effects of the three core variables is obvious across systems as well as criterion values. Only those variables which are significant at the .05 level (using Wilks' Lambda test) or better are included. Figure 6 provides a listing of the functional groupings by Criterion Variables for each of the four systems. While combinations of characteristics may vary for each of the four systems, the three "core" variables are consistently present, and are generally in separate functional groupings.

As we saw in the regression analyses, regardless of the number or nature of additional user characteristics included in the discriminant analyses, the significance level of the core and additional variables remains generally consistent. The significance levels of the core variables remains stronger than those of the other variables.

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FIGURE 5
DISCRIMINANT ANALYSIS OF USER CHARACTERISTICS

	CALIFORNIA		SYRACUSE		OHIO STATE		NORTHWESTERN	
	CORE	NON-CORE	CORE	NON-CORE	CORE	NON-CORE	CORE	NON-CORE
CRITERION VARIABLE 5 Amount found	48 49	56	49		48 49 50	51	49	
CRITERION VARIABLE 6 Satisfaction with search	48 49 50		49		48 49	51		55
CRITERION VARIABLE 9 Overall attitude	49	54 55	49 50	54 55 59	48 49	55	49 50	56
CRITERION VARIABLE 10 Compared to card catalog	49 50	54 56 59	48 50	54 56 59	48 49 50	54 55 59	50	

FIGURE 6

DISCRIMINANT ANALYSIS OF USER CHARACTERISTICS
FUNCTIONAL GROUPINGS

	CALIFORNIA Group:			SYRACUSE Group:			OHIO STATE Group:			NORTHWESTERN Group:		
	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3
CRITERION VARIABLE 5 Amount found	49	56	50	49	48	51	51	49	56	49	54	55
		48	55	55	56		50		48	48	56	51
		59	51		50		59		54		59	50
			54		59				55			
					54							
CRITERION VARIABLE 6 Satisfaction with search	49	56	59	49	50	51	49	54	51	55	50	51
	48	55	51		56	55	48		50	49	56	48
	50		54		48	59	56		55			59
					54				59			54
CRITERION VARIABLE 9 Overall attitude	54	49	51	50	49	55	49	50	59	50	49	55
	59	55		54	48		48	55		54	56	48
	48	50		59	56		51	54			51	59
	56				51			56				
CRITERION VARIABLE 10 Compared to card catalog	50	59		50	51		50	54		50	51	
	54	55		54	48		55	59		55	49	
	49	51		56	49		49	56		59	54	
	56	48		59	55			51		48	56	

INDEPENDENT EFFECTS ON USER SATISFACTION

Varying independent effects observed in the analyses of the User characteristics are discussed system by system.

University of California

The regression analyses for the University of California data indicate that more user characteristics contribute to the observed effects for this system than for any of the other three academic institutions. With reference to Figure 4 above, values of Items 53 (learned to use the computer catalog from...), 51 (frequency of user of another computer system), 54 (age), 56 (highest grade completed), and 59 (academic level) appear for all Criterion Variables.

The results of the discriminant analyses provide support for the significance of some of these variables. Items 54, 55, 56 and 59 were found to be significant at the .05 level or better for some of the Criterion Variables. It is interesting to note that Item 55 (sex) did not enter any of the regression analyses for the University of California.

It should be noted that the discriminant analysis technique could not be applied to categorical response items (Items 52, 53, 57, and 58). They were included in the regression analyses. The results of the two analytical techniques cannot be compared for these variables.

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The functional groupings of user characteristics for UC are provided in Figure 6. No patterns are discernible among the additional "non-core" variables at this point in the analysis. Using core variables does not cause us to miss anything represented in a non-core variable.

Syracuse University

The results of the regression and discriminant analyses of the Syracuse data are consistent in the additional user characteristics they identify as contributing the observed effects. Items 54 (age), 55 (sex), 57 (highest grade completed) and 59 (academic level) are identified in both analyses. However, the results of the discriminant analyses show them to be significant only against Criterion Variables 9 and 10 (overall or general attitude to the computer catalog; compared to the card catalog.)

The functional groupings of user characteristics for Syracuse are provided in Figure 6. No patterns are discernible among the additional "non-core" variables at this point in the analysis.

Ohio State University

The regression results for the Ohio State data are almost a direct contrast to the discriminant analysis results. This is a function of the limitation on categorical responses inherent in the latter. For Ohio State, the regression results identify

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values of Items 52 (heard of the computer catalog from...), 58 (learned to use the computer catalog from...), 57 (academic area) and 58 (focus of academic work) as being significant more frequently than other variables. Of the variables identified as significant in the discriminant analyses, only two: 51 (frequency of use of another computer system) and 59 (academic level) enter the regression equation. Items 54 (age) and 55 (sex) are not significant in the regression results.

The functional groupings of user characteristics for Ohio State are provided in Figure 6. No patterns are discernible among the additional "non-core" variables at this point in the analysis.

Northwestern University

Very few additional user characteristics contribute to the observed effects in the data for Northwestern. Values of Question 55 (sex), 53 (frequency of use of another computer system), 57 (academic area) and 59 (academic level) enter the regression equation. The discriminant analyses identify only 55 (sex) and 56 (highest grade completed) as being significant for Northwestern. Two of the four variables which enter the regression equation are categorical in nature and were not included in the discriminant analyses.

The functional groupings of user characteristics for Northwestern are provided in Figure 6. No patterns are discernible among the additional "non-core" variables at this point in the analysis.

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Observations

Except for the appearance of values of Items 54 (age), 55 (sex) and 56 (highest grade completed) for some of the systems for some of the Criterion Variables, little was observed in the way of patterns or trends among the additional, "non-core" user characteristics. There are no discernible patterns in the groupings of these "non-core" characteristics for any of the four systems of Criterion Variables at this point in the analysis.

Thus far the results do not indicate any clear patterns but effects may become evident as analysis of the remaining components of the model are completed. The functional grouping of the user characteristics or the identification of inconsistently significant "non-core" variables may prove useful in analysing effects observed in the system and database components of the model in particular.

A regression analysis including all library systems, and incorporating variables representing Users, Tasks, and Library Support Services, tends to reinforce the primacy of the three core variables, and shows that Variable 49, frequency of use of the online catalog, is the most important of the three, and therefore of the User variables taken as a whole. Table 2 reproduces partial results of this analysis. (Characteristics of Task and Library variables will be introduced later.) In this table is shown the number of times that each core demographic variable

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Table 2

Partial Presentation of Regression Analysis

*Demographics for Users

	#48 Use of Library	#49 Use of Online Catalog	#50 Use of Other Catalogs
Stephen F. Austin St. Univ.		3	
Claremont Colleges	3	4	1
Dallas Public	3	3	2
University of Calif.	4	5	4
Evanston Public	3	4	2
Iowa City Public	2	4	
Library of Congress	1		1
Mankato State	1	2	2
Mission/West Valley	3		1
Northwestern University	1	4	3
Ohio State University	4	5	3
Pikes Peak Public	1	4	3
Syracuse University		5	2
Total	26	43	24

* The numbers represent the number of times that each core demographic variable appears in the five regression analyses.

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appears in the five regression analyses (one regression for each of the five criterion variables) for each library system. It is clear that the core variables as a group are important, for they all appear as significant regressors in every library system. It would also appear that Question 49 is the most important demographic influence on success and satisfaction, at least in a statistical sense; it appears in 43 of the 65 regressions, as opposed to 26 times for Question 48 and 24 times for Question 50.

Analysis of the first component of the catalog use model has provided the following three general observations:

Among those user characteristics which are important to user satisfaction with the online catalog, those which represent experience with the library and its catalogs are most important. We call these three variables (the library, online catalog, other catalogs) the core variables.

While user characteristics have strong independent effects, the strength of their effects are not maintained when the three core variables are included.

Other demographic characteristics may be associated with the core variables. Age, sex, education level, academic discipline, and academic affiliation appear to be associated with frequency of library, of online and other catalog use. In this manner, they may influence success and satisfaction levels of online catalog users.

Section 4

THE TASK

The user comes to the online catalog for a variety of purposes and with information that ranges from complete to partial or even, in some cases, inaccurate. Users of online catalogs report that they most often come with subject-related information, bring complete bibliographic information to the catalog, and that class assignments are the primary purpose for using the online catalog.[3]

Task Variables

Questionnaire variables that define the user's search task at the online catalog include:

Question Number	Item
1	I came to the computer search with (mark all that apply)
2	By searching this computer catalog I was trying to find (mark all that apply)
3	I searched for what I wanted by (mark all that apply)
4	I need this information for (mark all that apply)

In statistical investigations using the four academic "test libraries," it was found that Question 4 showed few statistically reliable or meaningful relationships with criterion variables, and was not subsequently included in our investigation of task

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characteristics. The remaining three task variables, including information brought to (Question 1) and used in (Question 3) the search, and the kind of search being conducted (Question 2) were important factors in user success and satisfaction. Table 3 expands the partial presentation of regression results shown in Table 2 by adding results for these three task variables (NOTE: regression effects reported here are fully independent; that is, the statistical effects of the task variables are significant even after the influence of the three core demographic variables is taken into account). Table 3 suggests that Questions 1 and 3, appearing in 33 and 34 of 65 regression equations respectively, are somewhat more important then Question 2 (appearing 24 times) in explaining user satisfaction.

For analytical purposes, however, Questions 1 and 3 present some technical problems. As noted above, users were allowed to mark as many of the eight response categories for each question as they felt appropriate. The number of possible combinations of responses for each question is therefore 2 to the eighth power, or 256. Obviously, it becomes difficult to categorize each user's "task" when it may be described by 256 unique combinations of information elements.

Question 2 poses a similar technical problem, offering six alternatives in "mark all that apply" format, for a total of 64 combinations. However, the first three response categories, "specific book," "books on a topic," and "books by a specific author" account for 80 percent or more of responses in all

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Table 3

Presentation of Regression analysis for Demographic and Task Variables

	Demographic User Questionnaire:			Task User Questionnaire		
	#48	#49	#50	#1	#2	#3
	Use of Library	Use of Online Catalog	Use of Other Catalogs	Come with	Trying to find	Searched by
Stephen F. Austin St. Univ.		3		3	1	2
Claremont Colleges	3	4	1	4		1
Dallas Public	3	3	2	3	5	3
Univ. of Calif.	4	5	4	2	1	1
Evanston Public	3	4	2	2	3	4
Iowa City Public	2	4			1	1
Library of Congress	1		1	3		3
Mankato State Univ.	1	2	2	2	1	3
Mission/West Valley	3		1	3	1	3
Northwestern Univ.	1	4	3	2	2	4
Ohio State Univ.	4	5	3	3	5	4
Pikes Peak Public	1	4	3	3	2	2
Syracuse Univ.		5	2	3	2	3
Total	26	43	24	33	24	34

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libraries, and about 81 percent of responses from all participants in the Public Access Project.[4] Of those who responded to the Online Catalog Public Access Project User Questionnaire in categories other than 2A, B or C, 57 percent marked choice E, "if a book that I know the library has is available for my use." Judging that users who so responded must also have been looking for a specific book (choice A), whether so marked or not, we determined that using only the first three categories would affect no more than 4 percent of the responses to Question 2 (in fact, the effect is somewhat lower, because many who marked a response among the first three also marked a later category). Therefore, Question 2 was recoded into three mutually exclusive categories: Specific Book, Topic, and Author. Table 4 displays the distribution of tasks so defined by library system.

Tasks and User Characteristics

To help explore relationships between the characteristics of users and the tasks they perform, a series of bar charts was constructed (NOTE: using the Statistical Analysis System (SAS) verion 82.3. SAS PROC CONVERT was used to convert the data from SPSS to SAS formats for this analysis, and SAS PROC CHART used to produce the bar charts) to display the distribution of tasks for each user characteristic at each library. The bar charts are presented in Appendix 4.

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Table 4

Distribution of Tasks by Library System

LIBSYS	TASK: SPECIFIC BOOK	TOPIC	SPECIFIC AUTHOR	ROW TOTAL
AUS	18	60	5	83
STEVEN F. AUSTIN	21.7%	72.3%	6.0%	1.6
CLA	13	16	3	32
CLAREMONT	40.6	50.0	9.4	0.6
DAL	261	406	78	745
DALLAS PUBLIC	35.0	54.5	10.5	14.7
DLA	222	470	99	791
UNIV OF CALIF	28.1	59.4	12.5	15.7
EZA	81	72	18	171
EVANSTON	47.4	42.1	10.5	3.4
IOW	119	132	22	273
IOWA CITY	43.6	48.4	8.1	5.4
LOC	86	250	28	364
LIBRARY OF CONGR	23.6	68.7	7.7	7.2
MAN	43	153	4	200
MANKATO	21.5	76.5	2.0	4.0
MIS	3	7	1	11
MISSION	27.3	63.6	9.1	0.2
NOR	216	144	28	388
NORTHWESTERN	55.7	37.1	7.2	7.7
OHI	416	358	76	850
OHIO STATE	48.9	42.1	8.9	16.8
PIK	74	111	17	202
PIKES PEAK	36.6	55.0	8.4	4.0
SYR	379	410	64	853
SYRACUSE	44.4	48.1	7.5	16.9
WVA	24	58	8	90
WEST VALLEY	26.7	64.4	8.9	1.8
COLUMN TOTAL	1955	2647	451	5053
	38.7	52.4	8.9	100.0

With respect to the three core user variables, inspection and analysis of the charts appears to support the following conclusions:

Subject searching is more predominant among respondents who use the library moderately frequently (weekly to annually) (Question 48), and less predominant for very frequent and first-time users. This conclusion is supported by use patterns at 5 of 8 academic libraries (63 percent) and 4 of 5 public libraries (80 percent) or 9 of 13 libraries overall (69 percent). (NOTE: for purposes of this analysis, the Library of Congress is classified as a public, rather than academic, library.)

Very frequent users of the online catalog (Question 49) are less likely to be looking for material on a topic. This is supported by use patterns at 7 academic libraries (88 percent), 2 public libraries (40 percent), and 9 libraries overall (69 percent).

Infrequent users of the card catalog are more likely to use the online catalog to search for material on a topic. This is supported by use patterns in 6 of 8 academic libraries (75 percent) and 3 of 4 public libraries (75 percent), or 9 of 12 libraries overall (75 percent) (NOTE: Iowa City Public Library, which had eliminated its card catalog before the CLR study began, is excluded here.)

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Taken together, these findings suggest that, in most participating libraries, topic searching is more prevalent among those who are less experienced with the library and its catalogs, both online and card. Although several interpretations are possible (and no plausible interpretation can be clearly rejected by statistical means at this point), this finding suggests that users may approach the catalog from the perspective of the bibliographic tools and techniques with which they are already familiar. That is, users with considerable experience in the card catalog may use the online catalog for known-item searching because that is the use with which they are most familiar (perhaps having learned from experience that subject searching in the card catalog is a difficult and often unproductive effort), rather than because they have no need to conduct topical searches.

The bar charts for other (non-"core") user variables do not show identifiable patterns or trends with regard to user-task relationships, with one exception: for the eight academic libraries, the charts confirm the conventional belief that undergraduate students have a greater propensity for topical searching than graduate students and faculty. At the same time, the charts make clear that, on a percentage basis, topical searching by advanced students and scholars is not a trivial activity in the current generation of online catalogs. One possibility is that in academic libraries, topical searching varies by academic discipline. The hypothesis that task varied by discipline was tested statistically at each of the eight academic

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libraries using a standard Chi-square test. In only one case was the variation in task by discipline found to be statistically significant (at the 0.05 level). At Ohio State University, respondents in the disciplines of Business/Management and Engineering appear significantly more likely to conduct topical searches: the percentage distributions are 57.3 percent and 57.0 percent for the two disciplines respectively, and 42.5 percent for all Ohio State respondents.

The Relationship of Search Task to Success and Satisfaction

An examination of the relationship between search task and user satisfaction shows few statistically significant relationships. In 65 bivariate ANOVA's involving tasks and five criterion variables (for 13 libraries), only 15 (23 percent) showed a statistically reliable relationship at the 0.05 level or better. The results are displayed in Table 5.

As Table 5 shows, users looking for items on a topic were less likely to be satisfied with the amount retrieved or with the overall results of the most recent search. However, topical searches were more likely to uncover unexpected items of interest, and in the two cases where a statistically reliable relationship exists, had a more favorable attitude toward the online catalog.

One thing that we can conclude from this analysis is that the user's search task is more likely to influence their assessment of

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Table 5

Statistically Significant Relationships Between Search Task and User Satisfaction (p=0.05)

	AUS	CLA	DAL	DLA	EZA	IOW	LOC	MAN	MIS	NOR	OHI	PIK	SYR	Total
Amount Retrieved (Q5)		<								<	<		<	4
Search Satisfaction (Q6)		<							<	<	<			4
Found Unexpected Things (Q7)			>	>	>						>		>	5
Attitude Toward OLC (Q9)													>	1
Card/Computer Preference (Q10)								>						1

NOTE:

"<" indicates that users searching by TOPIC were less successful/satisfied that users searching author or for specific books.

">" indicates that users searching by TOPIC were more successful/satisfied that users searching author or for specific books.

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the results of the search just completed than to affect her general attitude toward the catalog. Another is that users are clearly more likely to find unexpected items in a subject search than in one for a known item. In both cases, it may be possible to attribute the result to the structure of the questionnaire instrument. In a known-item search, results tend to be clear-cut: you either find the item you are looking for, or you don't. In a topical search, users are less likely to respond that they "found everything they are looking for" because they cannot be sure that they have found EVERYTHING, at least until they inspect the books; even then who can be sure that they have retrieved everything of interest on a topic. Known-item searchers are more positive in their responses: they found everything or nothing, they are very satisfied or very unsatisfied. Topical searchers are more cautious: they found some of what they were looking for, and are only somewhat satisfied or dissatisfied. This effect is displayed in Table 6.

The foregoing analysis explores the relationship between tasks and satisfaction without considering the effects of user characteristics or library support variables. Table 7 displays partial regression results for three task variables and three user variables, and the regression analyses from which the table was drawn also include some library support variables (more on the library support results later): It is natural to ask about the influence of the kind of task on satisfaction when other factors are statistically controlled. Table 3 (in Section 4) showed that one or more task variables appeared in the regression equations at

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Table 6

Crosstabulations User Task by Questions 5 and 6

USER TASK	COUNT ROW %	RQ5 IN THIS SEARCH I FOUND: MORE THAN	ALL OR MOST	SOME	NOTHING	ROW TOTAL
Specific Book	1	319 16.6%	789 41.1%	407 21.2%	405 21.1%	1920 38.8%
Topic	2	414 15.9%	455 17.5%	1320 50.8%	407 15.7%	2596 52.4%
Specific Author	3	89 20.4%	133 30.4%	129 29.5%	86 19.7%	437 8.8%
	COLUMN	822 16.6%	1377 27.8%	1856 37.5%	898 18.1%	4953 100.0%

Number of Mission Observations = 100

USER TASK	COUNT ROW %	RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH: VERY SAT.	SOMEWHAT SAT.	SOMEWHAT UNSAT.	VERY UNSAT.	ROW TOTAL
Specific Book	1	1052 55.0%	488 25.5%	173 9.0%	200 10.5%	1913 38.7%
Topic	2	1018 39.2%	1005 38.7%	313 12.0%	262 10.1%	2599 52.6%
Specific Author	3	227 52.4%	113 26.1%	37 8.5%	56 12.9%	433 8.8%
	COLUMN TOTAL	2297 46.5%	1606 32.5%	523 10.6%	519 10.5%	4945 100.0%

Number of Missing Observations = 108

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Table 7

Presentation of Regression Analysis for Three Task Variables and Three User Variables

	Demographic User Questionnaire:			Task User Questionnaire		
	#48	#49	#50	#1	#2	#3
	Use of Library	Use of Online Catalog	Use of Other Catalogs	Come with	Trying to find	Searched by
Stephen F. Austin St. Univ.		3		3	1	2
Claremont Colleges	3	4	1	4		1
Dallas Public	3	3	2	3	5	3
Univ. of Calif.	4	5	4	2	1	1
Evanston Public	3	4	2	2	3	4
Iowa City Public	2	4			1	1
Library of Congress	1		1	3		3
Mankato State Univ.	1	2	2	2	1	3
Mission/West Valley	3		1	3	1	3
Northwestern Univ.	1	4	3	2	2	4
Ohio State Univ.	4	5	3	3	5	4
Pikes Peak Public	1	4	3	3	2	2
Syracuse Univ.		5	2	3	2	3
Total	26	43	24	33	24	34

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least 34 times in 65 analyses. In 16 of these cases, the task variable (from Questions 1, 2 or 3) was related to search success (Questions 5 and 6) and had something to do with subject searching (i.e. the user either had subject/topic information, was looking for books on a topic, or searched using subject heading or topic words). In two of these cases, the task variable was associated with higher levels of search success; in 14 cases, with lower levels of search success. Therefore, we conclude that topical searching is linked with lower levels of perceived search success and satisfaction even when the effect of other important variables is controlled.

University of California

Those who use the online catalog frequently (every visit or most visits) tend to bring subject heading information to the search more often than other categories of users. These frequent online catalog users are also more likely to search for books on a topic or conduct a search using a subject heading(s). Those who use the online catalog occasionally are more likely to bring complete title information to the search.

Syracuse University

Daily users of the library were more likely to bring complete author information, did not search very often for books on a topic, and were typically searching for information for their work/job.

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Those who use the online catalog every visit were more likely to be users seeking information related to job/work (respondents reported mean scores double those of other categories).

Those who use the library's other catalog were more likely to bring complete author information, were typically seeking a specific book (known item search), and were seeking information related to work/job.

Ohio State University

Those users from arts/humanities, social sciences and engineering were more likely to search by complete author or complete title than users from other disciplines. Frequent library users reported bringing complete author information to the search and searching by author. Infrequent library users brought subject heading information to the search and searched by subject.

Undergraduates, masters, and graduate-professional students were using the online catalog mostly for class and course reading. Upperclass and masters students typically seek information related to course paper or report needs.

Northwestern University

The frequent online catalog user typically brings complete title information, is looking for a specific book, and, interestingly, typically conducts searches by complete author. These frequent users are most likely working on theses/dissertations.

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Frequent users of the library's other catalogs are typically seeking information related to work/job or to a thesis/dissertation. First-time or infrequent users of the library's other catalogs are usually seeking information for a course paper.

Dallas Public

Members of younger age groups, 24 and under, tend to do more subject searching than do the older groups; younger age groups also bring more subject headings to the catalog than do the other age groups.

The online catalog is used for work or job, and for those under 19 years of age for class-course related reading. For those over 24 the online catalog is used most frequently for personal interest reasons.

Iowa City Public

Those 20 and over were searching for a book for recreational and/or personal interest. Younger ages were typically searching for a book for class-course reading.

Observations

An examination of the frequency with which a task variable enters into the regression format found that 16 out of 26 times, a task variable was first. Thus, task variables do play an

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important role in the use and satisfaction of the online catalog. The task, i.e., searching for a specific book or item in the library's collection (a known item search) or a topic (subject search) should therefore be acknowleged by system designers. After all, system designers can do little to change the characteristics of users, but a separate and distinct focus, and by implication, a separate and distinct way of interacting with an online catalog (read system interface) for a known item search or for a subject search would seem prudent.

An analysis was run to determine whether task is influenced by academic discipline. The results, with one exception (Ohio State business and engineering students), indicate that academic discipline had no affect on task. One possible explanation for the larger amount of topical searching might be that, since these disciplines rely heavily on the journal literature to stay current, users will conduct topic or subject searches for monographs in the library only when they wish to start to look at a new area.

In general, the data analysis of the task brought by the user to the catalog suggests that the task is fairly uniform across all systems. What variability is observed seems to be a reflection on that wonderful human virtue of "adaptability." That is, the user is bringing whatever information is needed to get the job done, given the strengths and limitations of the particular online catalog that is available.

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Section 5

THE SYSTEM INTERFACE

The system interface, while not entirely "user-friendly" for all systems, is generally well received by the users of all of the online catalogs. Users typically have positive feelings about the interface, with the majority of problems in the area of search control and display control. In essence, the user of the online catalog would like to be in control. Some problems are associated with subject searching and the problems experienced by users are similar regardless of the type of library.[5]

The system interface is represented in the CLR questionnaire in two ways:

1. By 32 Likert-scaled variables (Questions 11 to 42) that inquire about problems experienced by each respondent in using the online catalog system and its features and capabilities;
2. By specific information about each of the 13 online catalog systems included in the present study.

The second source of data is more reliable, in that it does not rely on attitudes and impressions; a particular feature (e.g., keyword searching) either is available or is not. Unfortunately, the same conditions apply to all users of a particular system, so

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only inter-system comparisons are possible. This leaves the analyst with only 13 cases from which to draw conclusions, an insufficient number for statistical purposes.

Our first approach, then, is to examine the users' attitudes about system capabilities and features, as they relate to success and satisfaction and to the users' search tasks. In an earlier study (Matthews et al, pp. 122-143), it was found that the 32 Linkert variables could be grouped into seven statistically independent factors for analysis, as follows:

Factor 1: Use of codes and abbreviations.
Factor 2: Understanding displays.
Factor 3: Entering commands and controlling the search.
Factor 4: Searching by subject.
Factor 5: Searching for known items.
Factor 6: Delays (response time, long messages, available terminals).
Factor 7: Library services (staff assistance, printed aids).

The influence of these factors on user success and satisfaction is documented in Matthews et al, and summarized at the beginning of this section.

To discover whether user attitudes about the system for any of these seven factors were related to the user's search task, we conducted ANOVA tests on the effect of task on factor scores. Of

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91 tests (13 libraries times 7 factors), only 15 (16 percent) yielded statistically reliable results at the 0.05 level or better, and the reliable results suggested no obvious trends or interpretations, with one exception. In four cases a relationship was found between task and Factor 4, which has to do with difficulties in searching by subject. In all four cases, users who conducted a topical search had fewer difficulties with the subject-searching features of the system in general than did users conducting other kinds of searches. In three of the four cases, the systems involved (Iowa City, Northwestern University, and Ohio State University) used the technique of matching the search to a list of subject headings, and displaying the heading list, before displying actual catalog records. In a related result, three significant relationships were found between task and factor 6, which has to do with delay factors and user patience. In all three cases (Library of Congress, Mankato State University, and Northwestern University), topical searchers apparently had fewer problems with response times, message lengths and other delay factors, and two of the systems display headings before displaying records.

Heading Display and System Features

These discoveries suggested that systems featuring a subject heading display are performing differently, from the users' point of view, than systems not designed to display headings as the first result of a search. To explore this matter further, we

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first classified the participating library systems by their heading-display design. Systems fell into three groups:

1. Systems that automatically display headings as the first result of a search. This group consists of five systems: Stephen F. Austin University (DataPhase); Mission/West Valley College (ULISYS); Library of Congress (SCORPIO-note: MUMS does not display headings); Ohio State University (LCS); and Northwestern University (NOTIS).

2. Quasi-heading systems. This category was created to account for the two libraries using the CLSI touch-screen system: the Evanston and Iowa City Public Libraries. This classification recognizes that the touch-screen interface displays some headings as the user proceeds through the search, but does not show a sequential list of headings until the lowest search level (just above retrieval of actual records) is reached.

3. Systems that display only records as the result of a search request. This class includes: the Claremont Colleges (TLS); Dallas Public Library; Mankato State University; the University of California (MELVYL); the Pikes Peak Library District (Maggie's Place); and Syracuse University (SULIRS).

A more complete description of each of these systems and their specific features will be found in Matthews _et al_, Chapter 2.

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To discover if systems with subject heading displays performed better than systems without this feature on each of the seven system factors, we first ranked each system according to the average factor score for all users of each system, on each of the seven factors. The average factor scores for all systems are displayed in Table 8, and relative rankings for each factor in Table 9. Note that the "directions" of the numerical factor scores vary). A large positive mean score is "good" (i.e., on the average, users had fewer problems with this factor) for Factors 1 and 3. A large negative score is "good" for Factors 2, 4, 5, 6 and 7. Rankings are presented from positive to negative, with positive values having rank 1.

Because (as noted previously) there are only 13 "observations" available for analysis when comparing entire systems, we were unable to apply formal statistical techniques to this question. What we have chosen to do is note the number of heading-display systems appearing in the top and bottom four libraries as ranked on the mean scores for each factor. Generally speaking, we would expect that if there were no relationship between rank standing and heading display, about 2 of 6 heading-display libraries would appear in the top four (i.e., the top one-third), and an equal number in the bottom four. If heading-display libraries are unusually effective or ineffective, they should tend to be more concentrated at one end of the ranking and less likely to be present at the other end.

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Table 8

Average Factor Scores, by Library

	Factor: 1	2	3	4	5	6	7
	Use of codes & abbre-viations	Under-standing displays	Enter-ing commands	Search by subject	Search for known item	Delays	Library Services
SYRACUSE	0.1951	-0.1073	-0.0391	0.1584	0.0495	0.0604	0.0064
PIKES PEAK	0.0445	-0.0084	0.0312	0.1526	0.1589	0.0284	0.0010
OHIO STATE	-0.0666	0.2242	-0.0436	-0.0455	-0.0381	-0.2571	-0.3329
NORTHWESTERN	0.1334	-0.1139	0.0786	0.0861	-0.1517	-0.0681	0.0802
MISSION	0.1164	-0.2193	0.0617	-0.2296	0.1430	-0.1482	-0.0013
MANKATO	0.1230	0.0126	-0.0477	-0.2089	0.0423	-0.1624	-0.1614
LIBRARY OF CONGRESS	-0.1438	0.1399	-0.0902	-0.1353	-0.0561	-0.0952	-0.0640
IOWA CITY	-0.0089	-0.1839	0.3251	-0.1063	0.1097	0.0385	0.0392
EVANSTON	0.0261	-0.1528	0.3045	-0.0564	0.0862	-0.0597	-0.0378
UNIV OF CALIF	0.2325	-0.2299	-0.1365	0.0730	-0.1045	0.1695	0.1904
DALLAS PUBLIC	-0.3328	0.0813	0.0537	-0.0686	0.0620	0.1660	0.1850
CLAREMONT	0.1208	0.0887	-0.0643	-0.1482	-0.0903	-0.0632	0.1292
STEVEN F. AUSTIN	-0.0343	0.1011	-0.3081	0.0007	0.0994	0.4943	-0.0394

The average expected factor value is zero. The average scores will therefore include plus and minuses.

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Table 8

Average Factor Scores, by Library

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OHIO STATE	-0.0666	0.2242	-0.0436	-0.0455	-0.0381	-0.2571	-0.3329
NORTHWESTERN	0.1334	-0.1139	0.0786	0.0861	-0.1517	-0.0681	0.0802
MISSION	0.1164	-0.2193	0.0617	-0.2296	0.1430	-0.1482	-0.0013
MANKATO	0.1230	0.0126	-0.0477	-0.2089	0.0423	-0.1624	-0.1614
LIBRARY OF CONGRESS	-0.1438	0.1399	-0.0902	-0.1353	-0.0561	-0.0952	-0.0640
IOWA CITY	-0.0089	-0.1839	0.3251	-0.1063	0.1097	0.0385	0.0392
EVANSTON	0.0261	-0.1528	0.3045	-0.0564	0.0862	-0.0597	-0.0378
UNIV OF CALIF	0.2325	-0.2299	-0.1365	0.0730	-0.1045	0.1695	0.1904
DALLAS PUBLIC	-0.3328	0.0813	0.0537	-0.0686	0.0620	0.1660	0.1850
CLAREMONT	0.1208	0.0887	-0.0643	-0.1482	-0.0903	-0.0632	0.1292
STEVEN F. AUSTIN	-0.0343	0.1011	-0.3081	0.0007	0.0994	0.4943	-0.0394

The average expected factor value is zero. The average scores will therefore include plus and minuses.

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Table 9

Relative Rankings on each Factor, by Library

	Factor: 1	2	3	4	5	6	7
	Use of codes & abbre-viations	Under-standing displays	Enter-ing com m ands	Search by subject	Search for known item	Delays	Library Services
CLAREMONT	05	04	10	11	11	08	03
DALLAS PUBLIC	13	05	05	08	06	03	02
EVANSTON	08	10	02	07	05	07	09
IOWA CITY	09	11	01	09	03	05	05
LIBRARY OF CONGRESS	12	02	11	10	10	10	11
MANKATO	04	06	03	12	08	12	12
MISSION	06	12	04	13	02	11	08
NORTHWESTERN	03	09	03	03	13	09	04
OHIO STATE	11	01	08	06	09	13	13
PIKES PEAK	07	07	06	02	01	06	07
STEVEN F. AUSTIN	10	03	13	05	04	01	10
SYRACUSE	02	08	07	01	07	04	06
UNIV OF CALIF	01	13	12	04	12	02	01

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We also believed that the "quasi-heading" libraries should receive separate treatment in this analysis, because the unique design of the CLSI interface might or might not be comparable to that of other heading-display systems.

The results of this analysis are shown in Table 10. The number of heading-display libraries ranked in the top and bottom four for each factor are shown; in each case, two numbers are supplied: one excluding the two "quasi-heading" libraries, and one including them. We note the following:

1. The number of libraries in the top four and bottom four are roughly equal, except for Factors 4 (Subject searching), 6 (User patience), and 7 (Library support). In these three cases, systems that display headings are heavily represented in the top four, and under-represented in the bottom four.

2. The "quasi-heading" libraries appear in neither the top nor the bottom four except in Factors 2 (Displays) and 3 (Command and control), where they both appear in the top four.

It would appear, then, that systems displaying headings are particularly effective in improving user satisfaction with subject searching features and in reducing causes of user impatience with the system; we are unable to interpret the relationship between

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Table 10

NUMBER OF HEADING-DISPLAY SYSTEMS IN THE TOP AND BOTTOM FOUR LIBRARIES RANKED BY AVERAGE FACTOR SCORES

	TOP 4 SYSTEMS		BOTTOM 4 SYSTEMS	
	Headings Only	Headings & Quasi-Headings	Headings Only	Headings & Quasi-Headings
1. Codes and abbreviations	1	1	3	3
2. Understanding displays	1	3	3	3
3. Command and control	2	4	2	2
4. Searching by subject	2	2	1	1
5. Searching for known items	2	2	2	3
6. Delays and patience	3	3	1	1
7. Library services	3	3	1	1

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heading display and satisfaction with library support services. The CLSI touch-screen system, however, should not be classed with the other heading-display systems, and has no particular advantage with regard to system problems except that displays are apparently more understandable and users have less difficulty with command and control (touch the screen).

Heading Display and User Satisfaction

Having discovered indications that the display of subject headings is an apparent advantage in subject searching and in diminishing burdens on user patience, it is reasonable to wonder whether this feature has any direct effect on user satisfaction. To find out, we conducted a similar analysis, using the average response for each system on the five success/satisfaction variables in place of the seven mean factor scores. The average response for each system on the five success/satisfaction variables was shown earlier in Table 1, and the rank-order standings in Table 11 (NOTE: for all five success/satisfaction variables, a lower mean score indicates a higher level of success or satisfaction).

Table 12 shows the number of heading-display systems in the top and bottom four on the five criterion variables; again, the two "quasi-heading" systems are treated separately. We see that:

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Table 11

Rank Order Standings for Each System
on the Five Success/Satisfaction Variables*

	User Questionnaire: #5	#6	#7	#9	#10
	Amount found	Satisfaction with search	Other things of interest	Overall attitude	Compared to Card Catalog
CLAREMONT	04	07	03	04	08
DALLAS PUBLIC	13	06	12	03	05
EVANSTON	08	08	08	07	04
IOWA CITY	12	13	09	02	02
LIBRARY OF CONGRESS	06	09	13	11	11
MANKATO	09	10	10	13	12
MISSION	10	12	06	12	13
NORTHWESTERN	07	11	01	10	09
OHIO STATE	11	05	07	09	10
PIKES PEAK	02	02	02	01	01
STEVEN F. AUSTIN	03	04	11	06	06
SYRACUSE	05	03	04	05	07
UNIV OF CALIF	01	01	05	08	03

* A lower mean score indicates a higher level of success or satisfaction.

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Table 12

NUMBER OF HEADING-DISPLAY SYSTEM IN THE TOP AND BOTTOM FOUR LIBRARIES RANKED BY AVERAGE SUCCESS AND SATISFACTION LEVEL

		TOP 4 SYSTEMS		BOTTOM 4 SYSTEMS	
		Headings Only	Headings & Quasi-Headings	Headings Only	Headings & Quasi-Headings
Q5.	Amount Retrieved	2	3	1	1
Q6.	Search Satisfaction	2	3	1	1
Q7.	Unexpected Items	2	2	1	1
Q9.	Overall Attitude	3	3	-	-
Q10.	Card/Computer Preference	3	3	-	-

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1. In all cases, subject heading-display systems are found in the top four in disproportionate numbers.

2. The effect is more pronounced for Questions 9 and 10 than for 5, 6 and 7; heading display appears to have a more marked effect on overall attitudes toward the online catalog than on feelings about the success of the most recent search completed.

3. The two "quasi-heading" systems (CLSI) appear to be more than ordinarily satisfactory with respect to the most recent search, but are associated with somewhat less favorable attitudes toward the online catalog in general.

Keyword Searching Features

An inspection of the bar graphs of task and user variables suggested that topic searching may have been more predominant in two systems that featured searching by keyword. This possibility was explored further.

The four systems that support keyword searching are the Library of Congress (MUMS/SCORPIO), Mankato State, Syracuse University (SULIRS), and the University of California (MELVYL). Table 4 (in Section 5) showed that the rate of topical searching in these four systems ranges from 76.5 percent to 48.1 percent. If the 13 libraries were ranked in terms of relative frequency of

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topical searching, the keyword systems would stand at ranks 1 (Mankato), 3 (LC), 5 (UC) and 10 (Syracuse). Table 13 shows the relative distribution of tasks for these four systems, taken as a group, contrasted with the task distribution of all other systems included in this study. The table shows that systems with keyword searching do indeed receive more subject searching: 58 percent as opposed to 48 percent in systems without the keyword feature. The difference is statistically reliable at the 0.001 level or better.

In Table 14, we show how many of the four keyword systems appear in the top and bottom four systems for each of the seven system interface factors (note that there are no "quasi-keyword" systems, so there are fewer columns in these tables.) Table 14 suggests that keyword systems may have a relative advantage on Factor 1 (Use of codes and abbreviations) and Factor 5 (Known item searching). Keyword systems appear to have a relative disadvantage on Factor 3 (Command and control).

Table 15 shows how many keyword systems ranked in the top and bottom four on the five success/satisfaction variables. It appears that keyword searching does not influence these criterion variables either positively or negatively, except for Question 9, Attitude toward the computer catalog, where a preponderance of keyword systems appears in the four systems where the online catalog was rated most favorably.

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Table 13

Task by Keyword Crosstabulation

USER TASK	COUNT / ROW PCT / COL PCT / TOT PCT	KEYWORD NO 0.	KEYWORD YES 1.	ROW TOTAL
SPEC BOOK	1.	1225 62.7 43.1 24.2	730 37.3 33.1 14.4	1955 38.7
TOPIC	2.	1364 51.5 47.9 27.0	1283 48.5 58.1 25.4	2647 52.4
SPEC AUTH	4.	256 56.8 9.0 5.1	195 43.2 8.8 3.9	451 8.9
	COLUMN TOTAL	2845 56.3	2208 43.7	5053 100.0

CHI SQUARE = 56.65955 WITH 2 DEGREES OF FREEDOM

SIGNIFICANCE = 0.0000

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Table 14

NUMBER OF KEYWORD SYSTEMS IN THE TOP AND BOTTOM FOUR LIBRARIES RANKED BY AVERAGE FACTOR SCORES

	TOP 4 SYSTEMS	BOTTOM 4 SYSTEMS
1. Codes and abbreviations	3	1
2. Understanding displays	1	1
3. Command and control	-	2
4. Searching by subject	2	2
5. Searching for known items	2	-
6. Delays and patience	2	2
7. Library services	2	1

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Table 15

NUMBER OF KEYWORD SYSTEMS IN THE TOP AND BOTTOM FOUR LIBRARIES RANKED BY AVERAGE SUCCESS AND SATISFACTION LEVEL

	TOP 4 SYSTEMS	BOTTOM 4 SYSTEMS
Q5. Amount Retrieved	-	1
Q6. Search Satisfaction	1	2
Q7. Unexpected Items	2	1
Q9. Overall Attitude	2	-
Q10. Card/Computer Preference	2	1

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Observations

In a review of those systems that do well with subject searching, the majority display the possible (valid) subject headings that result from the user's subject search and allow (force) the user to be more selective. (Note: once a library loads its subject authority control file, then the user will be able to see associated cross references). Bibliographic information for those records associated with each subject heading are then displayed to the user upon command of the user.

Thus, what is needed is an additional type of user interface which focuses on the type of search - subject search or known item search - in addition to the traditional dichotomy of the novice and experienced user interface (menu vs. command).

Systems with keyword searching receive more subject searching and are more successful in the areas of code and abbreviation and known item searching. However, such systems do not handle command and control issues well.

There appears to be no systematic influence on success and satisfaction as the result of using an online catalog with keyword searching.

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Section 6

LIBRARY SETTING

The majority of online catalog users discover the online catalog by seeing it in the library; they learn to use it by themselves and about one-third of the users required no assistance at all. Both online assistance and HELP should be provided by the online catalog and the chief physical problem appears to be the lack of physical space surrounding the online catalog terminal itself.[6]

In Tables 16 and 17 above, we presented information about partial regression results using variables related to user and task characteristics. In this section, we introduce the third part of that analysis, involving characteristics of library support and user education. (Note that aspects of point-of-use support, including attitudes toward staff assistance and printed aids, are included in System Factor 7, discussed previously.)

Table 16 completes this picture by showing the influence of three library support variables on user satisfaction:

Question 8: I got help in doing this computer catalog search from:

Question 52: I first heard about this computer from:

Question 53: I learned how to use this computer catalog:

Table 16

Influence of User Satisfaction on the
User, Task and Library Setting
(Regression Analysis)

	Demographics User Questionnaire:			Task User Questionnaire:			Library Setting User Questionnaire:		
	#48	#49	#50	#1	#2	#3	#8	#52	#53
	Use of Library	Use of Online Catalog	Use of other Catalogs	Cqme with	Trying to find	Searched by	Got Help from	Heard about Online Catalog	Learned to use
STEPHEN F. AUSTIN		3		3	1	2	2		1
CLAREMONT	3	4	1	4		1	1		1
DALLAS PUBLIC	3	3	2	3	5	3	3		3
EVANSTON PUBLIC	3	4	2	2	3	4	2	4	1
IOWA CITY PUBLIC	2	4			1	1	2	2	1
LIBRARY OF CONGRESS	1		1	3		3	1	1	1
MANKATO STATE	1	2	2	2	1	3	1		
MISSION/WEST VALLEY	3		1	3	1	3	2	2	1
NORTHWESTERN UNIV.	1	4	3	2	2	4	3		1
OHIO STATE UNIV.	4	5	3	3	5	4	3	2	5
PIKES PEAK PUBLIC	1	4	3	3	2	2	1	2	
SYRACUSE UNIV.		5	2	3	2	3	3		2
TOTAL	26	43	24	33	24	34	27	15	20

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In Table 16 we see that at least one library support variable appears as a statistically significant factor in at least one of the five regression analyses for each library system. On the whole, it would appear that library support is somewhat less important to user success/satisfaction than either user or task characteristics, but library factors still play an important role. Of the three library variables, the most important appears to be the source of assistance used during the search just completed (appearing in 27 of 65 regressions-42 percent), followed by the means used to learn the computer catalog (20 times, 31 percent), and by the way in which the catalog came to the user's attention (15 times, 23 percent).

It would be interesting to discover what aspects of assistance, training and notification contribute most to user satisfaction or dissatisfaction. To explore this question further, we tabulated the regression responses for each library variable entering a regression equation, classifying them as to whether they increased or decreased success and satisfaction. The results are displayed in Table 17 (NOTE: Totals in 19 are larger than those in 15 because multiple categories of a single variable can enter into a single regression equation. Instances of multiple categories are counted in Table 17, but not in Table 16).

Table 17 shows once more that values of Question 8 have the most influence on success and satisfaction, followed by Questions 53 and 52 respectively. With regard to sources of help, use of

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Table 17

Results of Regression Responses Entering a Regression Equation, by Library Variable

Item:	Increases Satisfaction	Decreases Satisfaction	Total
8. I got help from:			
Printed material or signs	11	-	11
Online instructions	10	-	10
Library staff member	3	4	7
Person nearby	5	-	5
I did not get help	3	7	10
TOTAL			43
52. I first discovered from:			
Noticing a terminal		(Base Value)	
Library tour	1	1	2
Article or announcement	1	4	5
A course instructor	1	-	1
A friend	-	3	3
Library staff	1	6	7
TOTAL			18
53. I learned how to use:			
From friend or someone nearby	3	-	3
Using printed instructions	2	3	5
Using online instructions	3	-	3
From the library staff	4	2	6
From a library course	1	-	1
Slide/tape/cassette program	1	-	1
By myself without any help	-	4	4
TOTAL			23

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printed or online assistance, or getting help from a person nearby, always appear to enhance success/satisfaction. Obtaining aid from library staff is not always helpful. Those who say they got no assistance are generally less satisfied than those who say they did. The use of printed and online aids appears most influential in the positive direction, and failing to secure help is most influential in the negative direction.

Respondents who learned to use the catalog from a friend, from online instructions, or from library staff appear generally more successful and satisfied. Those who say they taught themselves are less satisfied. Learning from printed aids appears to have a mixed record. The number of times when staff assistance enters the regression equations emphasized the importance of library-based programs in introducing the online catalog to users.

University of California

Those who use the library monthly or less frequently more often seek assistance from terminal instructions. In addition, infrequent system users find the keyboards confusing and find the terminal display characters hard to read. More frequent users of the online catalog complain more frequently about the height of the table on which the online catalog terminal is placed.

J. MATTHEWS & ASSOCIATES

The middle to older age groups all reported confusion with the keyboard.

Iowa City Public

The keyboard was confusing to the very young and those 45 or older, while noise was a problem for those over 35.

Evanston Public

The keyboard was confusing to only those over 45 and the noise affected those under 14.

Pikes Peak Public

Those over 35 reported help from library staff; those 15-24 did not seek help; and those under 14 were likely to ask a person nearby for assistance.

Observations

In sum, libraries are doing a fairly good job with the physical setting and, compared to the other variables that make up an online catalog, this is one area that does not deserve additional attention (provided some basic issues are addressed).

J. MATTHEWS & ASSOCIATES

The analysis shows that it is important to provide some form of initial instruction as well as sources of continuing aid for users of the online catalog. It may be appropriate to provide multiple methods, online, print and in person. Even though users show a propensity to get along without help, those who seek no assistance do less well than those who got aid from one of these sources.

J. MATTHEWS & ASSOCIATES

Syracuse University

Frequent users of the library did not seek assistance from either signs/printed matter or from the terminal itself. First time users of the library and of the online catalog were likely to seek assistance from a person nearby. The very young and the older user were more likely to report lighting as a problem.

Ohio State University

Faculty, staff and "others" were likely to seek assistance from library staff. Infrequent student library users turn first to printed matter to gain assistance. Several groups reported problems with the online catalog printer.

Northwestern University

First time users of the online catalog turn first to a person nearby for assistance. The older online catalog user will seek help from library staff. The male user is more concerned about glare on the screen and the lack of writing space adjacent to the online catalog terminal.

Dallas Public

The younger age groups tended not to get any assistance or ask for help from a person nearby. The middle age groups relied on the printed instructions and the older population asked for assistance from library staff.

J. MATTHEWS & ASSOCIATES

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2 Joseph R. Matthews, Gary S. Lawrence, Doug Ferguson. Using Online Catalogs: A Nationwide Survey. New York: Neal-Schuman, 1983.

3 Matthews et al, p. 84-90.

4 Matthews et al, p. 90-93.

5 Matthews et al, p. 205.

6 Matthews et al, p. 122-143.

7 Matthews et al, p. 103-113.

Appendix 1

CLR Online Catalog Public Access

Project Bibliography

UNIVERSITY OF CALIFORNIA SYSTEMWIDE ADMINISTRATION

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

SANTA BARBARA • SANTA CRUZ

Office of the Assistant Vice President--
Library Plans and Policies
Library Studies and Research Division
Room 7 University Hall

BERKELEY, CALIFORNIA 94720

March 5, 1984

THE COUNCIL ON LIBRARY RESOURCES PUBLIC ONLINE CATALOG STUDY: A PARTIAL BIBLIOGRAPHY

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Using Online Catalogs: A Nationwide Survey. Joseph Matthews, Gary Lawrence, and Douglas Ferguson, editors. New York, Neal-Schuman, 1983.

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Training Users of Online Public Access Catalogs. Summary of a meeting sponsored by the Council on Library Resources, San Antonio, Texas, January 12-14, 1983. Compiled and edited by Marsha Hamilton McClintock, Washington, D.C., Council on Library Resources.

Council on Library Resources, Inc.

Public Access Project

Participating Libraries and Online Catalog Systems

Library/Locations	*Library Type*	*System Name*
	University of California (DLA) Group	
Nine campuses	ARL	MELVYL
	J. Matthews & Associates, Inc. Group	
Claremont Colleges	Acad.	Claremont OLC
Evanston Public Library	Public	CLSI
Mankato State University	Acad.	Mankato OLC
Mission College	Comm. Coll.	ULISYS
Pikes Peak Library District	Public	Pikes Peak OLC
Steven F. Austin State Univ.	Acad.	DataPhase
West Valley Coll.	Comm. Coll.	ULISYS
	RLG Group	
Dartmouth College	ARL	Dart. OLC
Northwestern Univ.	ARL	NOTIS/LUIS
Stanford University	ARL	RLIN II
Library of Congress	State/Fed.	MUMS/SCORPIO
	OCLC, Inc. Group	
Ohio State University	ARL	LCS
Syracuse University	ARL	SULIRS
Dallas Public Library	Public	LSCAN
Iowa City Public Library	Public	CLSI
State Lib. of Ohio	State/Fed.	OCLC
Univ. of Akron	Acad.	OCLC
Univ. of Texas, Dallas	Acad.	OCLC
Ohio Univ., Athens	Acad.	OCLC
Univ. of Texas, Austin	Acad.	OCLC

Appendix 2

User Questionnaire

J. MATTHEWS & ASSOCIATES

Council on Library Resources

COMPUTER CATALOG STUDY

User Questionnaire

The library is conducting a study of its computer catalog to improve it. This questionnaire is a way to communicate your views. It should take you only about 15 minutes to complete. Your responses are confidential. Please do not write your name anywhere on the questionnaire. Thank you.

MARKING INSTRUCTIONS

- USE A NO. 2 PENCIL ONLY.
- FILL THE CIRCLES COMPLETELY.
- BE SURE TO ERASE CLEANLY ANY MARKS YOU WISH TO CHANGE.
- MAKE NO STRAY MARKS ON THIS QUESTIONNAIRE.

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DO NOT WRITE IN THIS AREA

PART 1: ABOUT YOUR MOST RECENT SEARCH

INSTRUCTIONS: Please answer these questions about the computer catalog search you just completed.

1. I came to this computer search with: (Mark ALL that apply)

- a. A complete author's name ..... ○
- b. Part of an author's name ..... ○
- c. A complete title ..... ○
- d. Part of a title ..... ○
- e. A topic word or words ..... ○
- f. A subject heading or headings ..... ○
- g. A complete call number ..... ○
- h. Part of a call number ..... ○

2. By searching this computer catalog I was trying to find: (Mark ALL that apply)

- a. A specific book, journal or magazine ..... ○
- b. Books, journals or magazines on a topic or subject ..... ○
- c. Books by a specific author ..... ○
- d. Information such as publisher, date, spelling of a name, etc. ..... ○
- e. If a book that I know the library has is available for my use ..... ○
- f. Another library that has a book, journal or magazine that I want ..... ○

3. I searched for what I wanted by: (Mark ALL that apply)

- a. A complete author's name ..... ○
- b. Part of an author's name ..... ○
- c. A complete title ..... ○
- d. Part of a title ..... ○
- e. A topic word or words ..... ○
- f. A subject heading or headings ..... ○
- g. A complete call number ..... ○
- h. Part of a call number ..... ○

4. I need this information for: (Mark ALL that apply)

- a. Recreational uses ..... ○
- b. Making or fixing something ..... ○
- c. My work or job ..... ○
- d. Personal interest ..... ○
- e. A hobby ..... ○
- f. Class or course reading ..... ○
- g. A course paper or report ..... ○
- h. A thesis or dissertation ..... ○
- i. Writing for publication ..... ○
- j. Teaching or planning a course ..... ○
- k. Keeping up on a topic or subject ..... ○

5. In this computer search I found: (Mark ONE only)

- a. More than I was looking for ..... ○
- b. All that I was looking for ..... ○
- c. Some of what I was looking for ..... ○
- d. Nothing I was looking for ..... ○

6. In relation to what I was looking for, this computer search was: (Mark ONE only)

- a. Very satisfactory ..... ○
- b. Somewhat satisfactory ..... ○
- c. Somewhat unsatisfactory ..... ○
- d. Very unsatisfactory ..... ○

7. I came across things of interest other than what I was looking for:

- a. YES ..... ○
- b. NO ..... ○

8. I got help in doing this computer catalog search from: (Mark ALL that apply)

- a. Printed material or signs ..... ○
- b. Instructions on the terminal screen ..... ○
- c. Library staff member ..... ○
- d. Person nearby ..... ○
- e. I did not get help ..... ○

9. My overall or general attitude toward the computer catalog is:
(Mark ONE only)

a. Very favorable ○
b. Somewhat favorable ○
c. Somewhat unfavorable ○
d. Very unfavorable ○

10. Compared to the card, book, or microfiche catalog in this library, the computer catalog is:
(Mark ONE only)

a. Better ○
b. About the same ○
c. Worse ○
d. Can't decide ○

PART 2: YOUR EXPERIENCE WITH COMPUTER CATALOG FEATURES

INSTRUCTIONS: Mark the single column for each question that corresponds most closely to how you feel. If the statement does not apply to your experience at the computer catalog, mark the column, "Does Not Apply".

	STRONGLY AGREE	AGREE	NEITHER AGREE NOR DISAGREE	DISAGREE	STRONGLY DISAGREE	DOES NOT APPLY
11. A computer search by title is difficult	○	○	○	○	○	○
12. A computer search by author is easy	○	○	○	○	○	○
13. A computer search by subject is difficult	○	○	○	○	○	○
14. A computer search by call number is easy	○	○	○	○	○	○
15. A computer search by combined author/title is difficult	○	○	○	○	○	○
16. Remembering commands in the middle of the search is easy	○	○	○	○	○	○
17. Finding the correct subject term is difficult	○	○	○	○	○	○
18. Scanning through a long display (forward or backward) is easy	○	○	○	○	○	○
19. Increasing the result when too little is retrieved is difficult	○	○	○	○	○	○
20. Reducing the result when too much is retrieved is easy	○	○	○	○	○	○
21. Understanding explanations on the screen is difficult	○	○	○	○	○	○
22. Using codes or abbreviations for searching is easy	○	○	○	○	○	○
23. Abbreviations on the screen are easy to understand	○	○	○	○	○	○
24. Locating call numbers on the screen is difficult	○	○	○	○	○	○
25. Searching with a short form of a name or a word (truncation) is easy	○	○	○	○	○	○

	STRONGLY AGREE	AGREE	NEITHER AGREE NOR DISAGREE	DISAGREE	STRONGLY DISAGREE	DOES NOT APPLY
26. Using logical terms like AND, OR, NOT is difficult	○	○	○	○	○	○
27. Remembering the exact sequence or order of commands is easy	○	○	○	○	○	○
28. Understanding the initial instructions on the screen is difficult	○	○	○	○	○	○
29. Understanding the display for a single book, journal or magazine is easy	○	○	○	○	○	○
30. Understanding the display that shows more than a single book, journal or magazine is difficult	○	○	○	○	○	○
31. Interrupting or stopping the display of information is easy	○	○	○	○	○	○
32. Typing in exact spelling, initials, spaces and hyphens is difficult to do	○	○	○	○	○	○
33. Knowing what is included in the computer catalog is easy to remember	○	○	○	○	○	○
34. The order in which items are displayed is easy to understand	○	○	○	○	○	○
35. Displayed messages are too long	○	○	○	○	○	○

	STRONGLY AGREE	AGREE	NEITHER AGREE NOR DISAGREE	DISAGREE	STRONGLY DISAGREE	DOES NOT APPLY
36. Selecting from a list of choices takes too much time	○	○	○	○	○	○
37. Entering commands when I want to during the search process is difficult	○	○	○	○	○	○
38. The rate at which the computer responds is too slow	○	○	○	○	○	○
39. The availability of signs and brochures is adequate	○	○	○	○	○	○
40. Signs and brochures are not very useful	○	○	○	○	○	○
41. The staff advice is often not helpful	○	○	○	○	○	○
42. It is hard to find a free terminal	○	○	○	○	○	○

YOU ARE MORE THAN HALF - WAY DONE

PART 3: IMPROVING THE COMPUTER CATALOG

INSTRUCTIONS: Select the response or responses that best reflect your views about changes that should be made in the computer catalog.

43. When I use the computer catalog terminal: (Mark YES or NO)

	YES	NO
a. The keyboard is confusing to use	○	○
b. There is too much glare on the screen	○	○
c. The letters and numbers are easy to read	○	○
d. The lighting around the terminal is too bright	○	○
e. There is enough writing space at the terminal	○	○
f. Nearby noise is distracting	○	○
g. The terminal table is too high or too low	○	○
h. The printer is easy to use	○	○

44. Select up to FOUR additional features you would like this computer catalog to have:

a. Providing step by step instructions ○
b. Searching by any word or words in a title ○
c. Searching by any word or words in a subject heading ○
d. Limiting search results by date of publication ○
e. Limiting search results by language ○
f. Ability to search by journal title abbreviations ○
g. Ability to change the order in which items are displayed ○
h. Ability to view a list of words related to my search words ○
i. Ability to search for illustrations and bibliographies ○
j. Ability to search by call number ○
k. Ability to print search results ○
l. Ability to search a book's table of contents, summary, or index ○
m. Ability to know if a book is checked out ○
n. Ability to tell where a book is located in the library ○
o. None ○

45. Select up to FOUR computer catalog service improvements you would like the library to make:

a. More terminals ○
b. Terminals at locations other than near the card catalog ○
c. Terminals at places other than library buildings ○
d. A chart of commands posted at the terminal ○
e. A manual or brochure at the terminal ○
f. An instruction manual for purchase ○
g. Training sessions ○
h. Slide/tape/cassette training program ○
i. None ○

46. Select up to FOUR kinds of material you would like to see added to the computer catalog:

a. Dissertations ○
b. Motion picture films ○
c. Government publications ○
d. Journal or magazine titles ○
e. Maps ○
f. Manuscripts ○
g. Music scores ○
h. Newspapers ○
i. Phonograph records or tapes ○
j. Technical reports ○
k. More of the library's older books ○
l. None ○
m. Other ○

47. BRIEFLY DESCRIBE ANY OTHER PROBLEMS WITH THIS COMPUTER CATALOG OR CHANGES YOU WOULD LIKE MADE TO IT: ○

PART 4: ABOUT YOURSELF

INSTRUCTIONS: Your responses are confidential. Please do not write your name anywhere on this questionnaire.

40. I come to this library:

1 a. Daily ○
2 b. Weekly ○
3 c. Monthly ○
4 d. About four times a year ○
5 e. About once a year ○
6 f. Not before today ○

49. I use this computer catalog:

a. Every library visit ○
b. Almost every visit ○
c. Occasionally ○
d. Rarely ○
e. Not before today ○

50. I use this library's book, card or microfilm catalog:

a. Every visit ○
b. Almost every visit ○
c. Occasionally ○
d. Rarely ○
e. Never ○

51. I use a computer system other than the library's computer catalog:

a. Daily ○
b. Weekly ○
c. Monthly ○
d. About four times a year ○
e. About once a year ○
f. Never ○

52. I first heard about this computer catalog from: (Mark ONE only)

a. Noticing a terminal in the library ○
b. Library tour, orientation or demonstration ○
c. An article or written announcement ○
d. A course instructor ○
e. A friend or family member ○
f. Library staff ○

53. I learned how to use this computer catalog: (Mark ALL that apply)

a. From a friend or someone at a nearby terminal ○
b. Using printed instructions ○
c. Using instructions on the terminal screen ○
d. From the library staff ○
e. From a library course or orientation ○
f. From a slide/tape/cassette program ○
g. By myself without any help ○

54. My age group is:

a. 14 and under ○
b. 15 - 19 years ○
c. 20 - 24 years ○
d. 25 - 34 years ○
e. 35 - 44 years ○
f. 45 - 54 years ○
g. 55 - 64 years ○
h. 65 and over ○

55. I am:

a. Female ○
b. Male ○

56. Mark your current or highest educational level: (Mark ONE only)

a. Grade School or Elementary School ○
b. High School or Secondary School ○
c. Some College or University ○
d. College or University Graduate ○

If you are not completing this questionnaire at a college or university, please stop here. Thank you.

If you are completing this questionnaire at a college or university, please continue.

57. The category that best describes my academic area is: (Mark ONE only)

a. Arts and Humanities ○
b. Physical/Biological Sciences ○
c. Social Sciences ○
d. Business Management ○
e. Education ○
f. Engineering ○
g. Medical/Health Sciences ○
h. Law ○
i. Major not declared ○
j. Interdisciplinary ○

58. The main focus of my academic work at the present time is:
(Mark ALL that apply)

a. Course Work ○
b. Teaching ○
c. Research ○

59. My present affiliation with this college or university is:

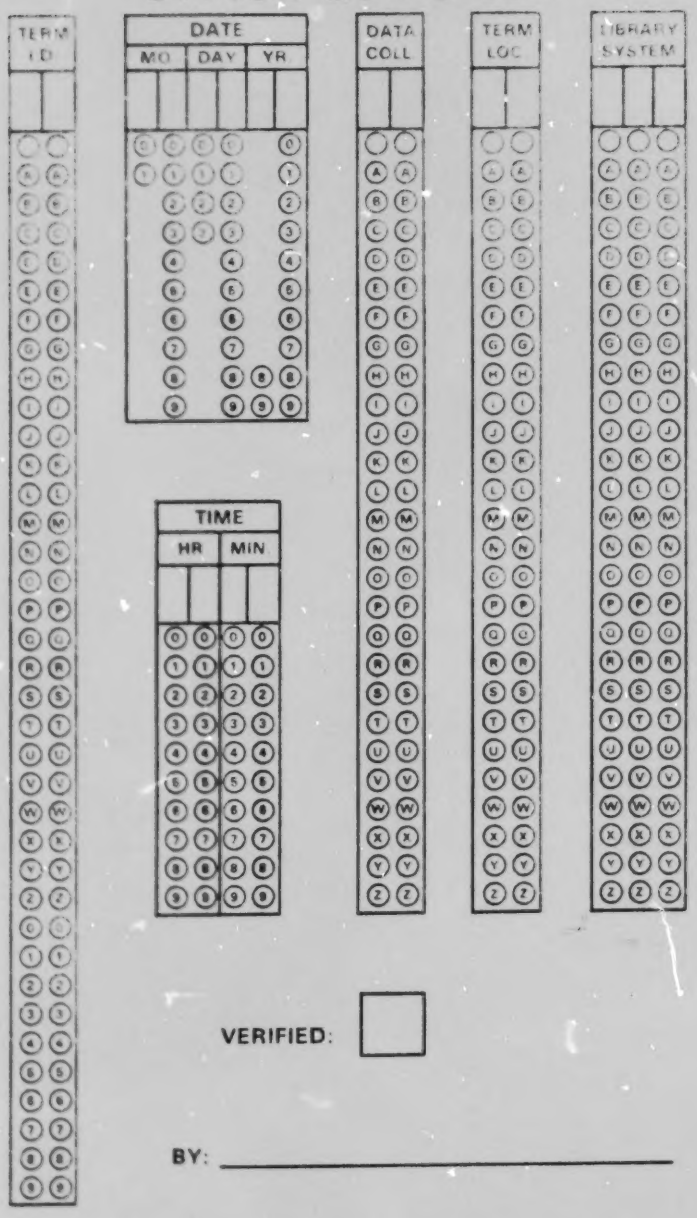
a. Freshman/Sophomore ○
b. Junior/Senior ○
c. Graduate - masters level ○
d. Graduate - doctoral level ○
e. Graduate - professional school ○
f. Faculty ○
g. Staff ○
h. Other ○

Thank you for participating in this study of the computer catalog. This completes the questionnaire. Please return it.

SUPPLEMENTARY QUESTIONNAIRE ITEMS

60 ○○○○○○○○○○○○○○○○
61. ○○○○○○○○○○○○○○○○
62 ○○○○○○○○○○○○○○○○
63. ○○○○○○○○○○○○○○○○
64 ○○○○○○○○○○○○○○○○

OFFICE USE ONLY



VERIFIED: ☐

BY: _____

DATE: _____

DO NOT WRITE IN THIS AREA

11415

APPENDIX 3

REGRESSION ANALYSES OF ALL USER VARIABLES FOR FOUR LARGEST ACADEMIC SYSTEMS

SPSS FOR OS/360, VERSION H, RELEASE 9A, SEPTEMBER 15, 1980

CURRENT DOCUMENTATION FOR THE SPSS BATCH SYSTEM

ORDER FROM MCGRAW-HILL: SPSS, 2ND ED. (PRINCIPAL TEXT)
SPSS PRIMER (BRIEF INTRO TO SPSS)
SPSS UPDATE (USE W/SPSS,2ND FOR REL. 7 & 8)

ORDER FROM SPSS INC.: SPSS STATISTICAL ALGORITHMS
SPSS POCKET GUIDE, RELEASE 8
KEYWORDS: THE SPSS INC. NEWSLETTER

DEFAULT SPACE ALLOCATION.. ALLOWS FOR.. 1024 TRANSFORMATIONS
WORKSPACE 716800 BYTES 4096 RECODE VALUES + LAG VARIABLES
TRANSPACE 102400 BYTES 16384 IF/COMPUTE OPERATIONS

1 RUN NAME REGRESSION 10: 48 TO 59--ALL DEMOG.
2 GET FILE FINAL

EXPECTED FILE FINAL FOUND FILE FINALSUB

FILE FINALSUB HAS 384 VARIABLES

THE SUBFILES ARE..

NAME	NO OF CASES
AKR	132
ATH	51
AUS	111
CLA	49
DAL	1081
DAR	41
DLA	1259
EZA	252
IOW	410
LOC	525
MAN	281
MIS	17
NOR	616
OHI	1247
PIK	304
STA	5
SUL	95
SYR	1339
TCL	104
UTD	37
WVA	138

CPU TIME REQUIRED.. 1.19 SECONDS

```
 3 RUN SUBFILES   (DLA) (SYR) (OHI) (NOR)
 4 COMMENT        REGRESSION DUMMIES FOR RQ48
 5 DO REPEAT      REGVAR=RR48B RR48C RR48D/
 6 COMPUTE        REGVAR=0
 7 IF             (RQ48 EQ 0) REGVAR=-1
 8 IF             (RQ48 EQ 99) REGVAR=-1
 9 MISSING VALUES REGVAR (-1)
10 END REPEAT


11 IF             (RQ48 EQ 2) RR48B=1
12 IF             (RQ48 EQ 3) RR48C=1
13 IF             (RQ48 GT 3) RR48D=1
14 IF             (RQ48 GT 7) RR48D=-1
15 VAR LABELS     RR48B LIBUSE WEEKLY/RR48C LIBUSE MONTHLY/
16                RR48D LIBUSE INFREQ/
17 COMMENT        REGRESSION DUMMIES FOR RQ49
18 DO REPEAT      REGVAR=RR49B RR49C RR49D RR49E/
19 COMPUTE        REGVAR=0
20 IF             (RQ49 EQ 0) REGVAR=-1
21 IF             (RQ49 EQ 99) REGVAR=-1
22 MISSING VALUES REGVAR (-1)
23 END REPEAT


24 IF             (RQ49 EQ 2) RR49B=1
25 IF             (RQ49 EQ 3) RR49C=1
26 IF             (RQ49 EQ 4) RR49D=1
27 IF             (RQ49 EQ 5) RR49E=1
28 VAR LABELS     RR49B OLCUSE MOSTLY/RR49C OLCUSE OCCAS/
29                RR49D OLCUSE RARE/RR49E OLCUSE NEW/
30 COMMENT        REGRESSION DUMMIES FOR RQ50
31 DO REPEAT      REGVAR=RR50B RR50C RR50D RR50E/
32 COMPUTE        REGVAR=0
33 IF             (RQ50 EQ 0) REGVAR=-1
34 IF             (RQ50 EQ 99) REGVAR=-1
35 MISSING VALUES REGVAR (-1)
36 END REPEAT


37 IF             (RQ50 EQ 2) RR50B=1
38 IF             (RQ50 EQ 3) RR50C=1
39 IF             (RQ50 EQ 4) RR50D=1
40 IF             (RQ50 EQ 5) RR50E=1
41 VAR LABELS     RR50B CATUSE MOSTLY/RR50C CATUSE OCCAS/
42                RR50D CATUSE RARE/RR50E CATUSE NEVER/
43 COMMENT        REGRESSION DUMMIES FOR RQ51
44 DO REPEAT      REGVAR=RR51B RR51C RR51D RR51E RR51F/
45 COMPUTE        REGVAR=0
46 IF             (RQ51 EQ 0) REGVAR=-1
```

```
47 IF              (RQ51 EQ 99) REGVAR=-1
48 MISSING VALUES REGVAR (-1)
49 END REPEAT


50 IF              (RQ51 EQ 2) RR51B=1
51 IF              (RQ51 EQ 3) RR51C=1
52 IF              (RQ51 EQ 4) RR51D=1
53 IF              (RQ51 EQ 5) RR51E=1
54 IF              (RQ51 EQ 6) RR51F=1
55 VAR LABELS      RR51B CPTRUSE WEEKLY/RR51C CPTRUSE MONTHLY/
56                 RR51D CPTRUSE QRTLY/RR51E CPTRUSE ANNUAL/
57                 RR51F CPTRUSE NEVER/
58 COMMENT         REGRESSION DUMMIES FOR RQ52
59 DO REPEAT       REGVAR=RR52B RR52C RR52D RR52E RR52F/
60 COMPUTE         REGVAR=0
61 IF              (RQ52 EQ 0) REGVAR=-1
62 IF              (RQ52 EQ 99) REGVAR=-1
63 MISSING VALUES REGVAR (-1)
64 END REPEAT


65 IF              (RQ52 EQ 2) RR52B=1
66 IF              (RQ52 EQ 3) RR52C=1
67 IF              (RQ52 EQ 4) RR52D=1
68 IF              (RQ52 EQ 5) RR52E=1
69 IF              (RQ52 EQ 6) RR52F=1
70 VAR LABELS
71                 RR52B DISCOV LIBRARY TOUR/
72                 RR52C DISCOV ARTICLE-ANNOUNCE/
73                 RR52D DISCOV INSTRUCTOR/
74                 RR52E DISCOV FRIEND - FAMILY/
75                 RR52F DISCOV LIBRARY STAFF/
76 COMMENT         MISSING VALUES FOR RQ53 (MULT RESPONSE)
77 DO REPEAT       REGVAR=RQ53A RQ53B RQ53C RQ53D RQ53E RQ53F RQ53G/
78 IF              (RQ53SUM EQ 0) REGVAR=-1
79 MISSING VALUES REGVAR (-1)
80 END REPEAT
81 COMMENT         REGRESSION DUMMIES FOR RQ54


82 DO REPEAT       REGVAR=RR54A RR54C RR54D RR54E RR54F RR54G RR54H/
83 COMPUTE         REGVAR=0
84 IF              (RQ54 EQ 0) REGVAR=-1
85 IF              (RQ54 EQ 99) REGVAR=-1
86 MISSING VALUES REGVAR (-1)
87 END REPEAT
```

```
 88 IF              (RQ54 EQ 1) RR54A=1
 89 IF              (RQ54 EQ 3) RR54C=1
 90 IF              (RQ54 EQ 4) RR54D=1
 91 IF              (RQ54 EQ 5) RR54E=1
 92 IF              (RQ54 EQ 6) RR54F=1
 93 IF              (RQ54 EQ 7) RR54G=1
 94 IF              (RQ54 EQ 8) RR54H=1
 95 VAR LABELS
 96                 RR54A 14 AND  UNDER/
 97                 RR54C 20 - 24 YEARS/
 98                 RR54D 25 - 34 YEARS/
 99                 RR54E 35 - 44 YEARS/
100                 RR54F 45 - 54 YEARS/
101                 RR54G 55 - 64 YEARS/
102                 RR54H 65 AND  OVER/
103 COMMENT         RECODING FOR RQ55 (ALREADY BINARY)
104 COMPUTE         RQ55=RQ55-1
105 MISSING VALUES RQ55 (-1)
106 VAR LABELS      RQ55 MALE/
107 COMMENT         REGRESSION DUMMIES FOR RQ56
108 DO REPEAT       REGVAR=RR56A RR56C RR56D/
109 COMPUTE         REGVAR=0
110 IF              (RQ56 EQ 0) REGVAR=-1
111 IF              (RQ56 EQ 99) REGVAR=-1
112 MISSING VALUES REGVAR (-1)
113 END REPEAT


114 IF              (RQ56 EQ 1) RR56A=1
115 IF              (RQ56 EQ 3) RR56C=1
116 IF              (RQ56 EQ 4) RR56D=1
117 VAR LABELS
118                 RR56A GRADE SCHOOL/
119                 RR56C SOME COLLEGE/
120                 RR56D COLLEGE GRADUATE/
121 COMMENT         REGRESSION DUMMIES FOR RQ57
122 DO REPEAT       REGVAR=RR57B RR57C RR57D RR57E RR57F RR57G RR57H
123                 RR57I RR57J/
124 COMPUTE         REGVAR=0
125 IF              (RQ57 EQ 0) REGVAR=-1
126 IF              (RQ57 EQ 99) REGVAR=-1
127 MISSING VALUES REGVAR (-1)
128 END REPEAT


129 IF              (RQ57 EQ 2) RR57B=1
130 IF              (RQ57 EQ 3) RR57C=1
131 IF              (RQ57 EQ 4) RR57D=1
132 IF              (RQ57 EQ 5) RR57E=1
133 IF              (RQ57 EQ 6) RR57F=1
134 IF              (RQ57 EQ 7) RR57G=1
```

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135 IF              (RQ57 EQ 8) RR57H=1
136 IF              (RQ57 EQ 9) RR57I=1
137 IF              (RQ57 EQ 10) RR57J=1
138 VAR LABELS
139                 RR57B PHYS-BIO SCIENCES/
140                 RR57C SOCIAL SCIENCES/
141                 RR57D BUSINESS-MANAGEMENT/
142                 RR57E EDUCATION/
143                 RR57F ENGINEERING/
144                 RR57G MEDICAL-HEALTH SCIEN/
145                 RR57H LAW/
146                 RR57I MAJOR UNDECLARED/
147                 RR57J INTERDISCIPLINARY/
148 COMMENT         MISSING VALUES FOR RQ58 (MULT RESPONSE)
149 DO REPEAT       REGVAR=RQ58A RQ58B RQ58C/
150 IF              (RQ58SUM EQ 0) REGVAR=-1
151 MISSING VALUES REGVAR (-1)
152 END REPEAT
153 COMMENT         REGRESSION DUMMIES FOR RQ59


154 DO REPEAT       REGVAR=RR59B RR59C RR59D RR59E RR59F RR59G RR59H/
155 COMPUTE         REGVAR=0
156 IF              (RQ59 EQ 0) REGVAR=-1
157 IF              (RQ59 EQ 99) REGVAR=-1
158 MISSING VALUES REGVAR (-1)
159 END REPEAT


160 IF              (RQ59 EQ 2) RR59B=1
161 IF              (RQ59 EQ 3) RR59C=1
162 IF              (RQ59 EQ 4) RR59D=1
163 IF              (RQ59 EQ 5) RR59E=1
164 IF              (RQ59 EQ 6) RR59F=1
165 IF              (RQ59 EQ 7) RR59G=1
166 IF              (RQ59 EQ 8) RR59H=1
167 VAR LABELS      RR59B JUNIOR-SENIOR/RR59C GRAD MASTER/RR59D DOCTORAL/
168                 RR59E GRAD PROF/RR59F FACULTY/RR59G STAFF/
169                 RR59H OTHER USER/
170 NEW REGRESSION DESCRIPTIVES=MEAN/
171                 MISSING=PAIRWISE/
172                  VARS=RQ5 TO RQ7 RQ9 RQ10 RQ53A TO RQ53G RQ55 RQ58A
173                  TO RQ58C RR48B TO RR59H/
174                 STATISTICS=R ANOVA COEFF OUTS CHA LABEL END/
175                 DEPENDENT=RQ5 TO RQ7 RQ9 RQ10/
176                 STEPWISE/

REGRESSION PROCEDURE REQUIRES    96152 BYTES OF WORKSPACE.
```

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

VARIABLE LIST NUMBER 1. PAIRWISE DELETION OF MISSING DATA.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

	MEAN	CASES	LABEL
RQ5	2.944	1066	IN THIS SEARCH I FOUND
RQ6	2.199	1054	IN REL TO WHAT I WAS LOOKING FOR SEARCH
RQ7	1.514	1051	CAME ACROSS OTHER THINGS OF INTEREST
RQ9	1.403	1038	GENERAL ATTITUDE TOWARD COMPUTER CAT IS
RQ10	1.461	966	COMPUTER CAT COMPARED TO OTHER CAT
RQ53A	0.083	883	FROM A FRIEND
RQ53B	0.310	883	BY PRINTED INSTR
RQ53C	0.564	883	BY INSTR ON TERMINAL
RQ53D	0.054	883	FROM LIBRARY STAFF
RQ53E	0.020	883	FROM LIBRARY COURSE
RQ53F	0.0	883	AUDIO-VISUAL PROG
RQ53G	0.299	883	BY MYSELF
RQ55	0.669	877	MALE
RQ58A	0.714	871	COURSE WORK
RQ58B	0.075	871	TEACHING
RQ58C	0.356	871	RESEARCH
RR48B	0.429	888	LIBUSE WEEKLY
RR48C	0.088	888	LIBUSE MONTHLY
RR48D	0.060	888	LIBUSE INFREQ
RR49B	0.341	885	OLCUSE MOSTLY
RR49C	0.356	885	OLCUSE OCCAS
RR49D	0.072	885	OLCUSE RARE
RR49E	0.092	885	OLCUSE NEW
RR50B	0.294	880	CATUSE MOSTLY
RR50C	0.380	880	CATUSE OCCAS
RR50D	0.111	880	CATUSE RARE
RR50E	0.049	880	CATUSE NEVER
RR51B	0.201	885	CPTRUSE WEEKLY
RR51C	0.112	885	CPTRUSE MONTHLY
RR51D	0.125	885	CPTRUSE QRTLY
RR51E	0.079	885	CPTRUSE ANNUAL
RR51F	0.342	885	CPTRUSE NEVER
RR52B	0.042	879	DISCOV LIBRARY TOUR
RR52C	0.018	879	DISCOV ARTICLE-ANNOUNCE
RR52D	0.024	879	DISCOV INSTRUCTOR
RR52E	0.076	879	DISCOV FRIEND - FAMILY
RR52F	0.030	879	DISCOV LIBRARY STAFF
RR54A	0.017	886	14 AND UNDER
RR54C	0.468	886	20 - 24 YEARS
RR54D	0.188	886	25 - 34 YEARS
RR54E	0.054	886	35 - 44 YEARS
RR54F	0.017	886	45 - 54 YEARS
RR54G	0.008	886	55 - 64 YEARS
RR54H	0.014	886	65 AND OVER
RR56A	0.026	886	GRADE SCHOOL
RR56C	0.595	886	SOME COLLEGE

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

	MEAN	CASES	LABEL
RR56D	0.331	886	COLLEGE GRADUATE
RR57B	0.227	885	PHYS-BIO SCIENCES
RR57C	0.193	885	SOCIAL SCIENCES
RR57D	0.047	885	BUSINESS-MANAGEMENT
RR57E	0.020	885	EDUCATION
RR57F	0.141	885	ENGINEERING
RR57G	0.058	885	MEDICAL-HEALTH SCIEN
RR57H	0.029	885	LAW
RR57I	0.040	885	MAJOR UNDECLARED
RR57J	0.002	885	INTERDISCIPLINARY
RR59B	0.390	872	JUNIOR-SENIOR
RR59C	0.064	872	GRAD MASTER
RR59D	0.076	872	DOCTORAL
RR59E	0.019	872	GRAD PROF
RR59F	0.032	872	FACULTY
RR59G	0.026	872	STAFF
RR59H	0.161	872	OTHER USER

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 1.

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR57J

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1518	0.0230	0.0219	20.130	0.000	0.0230	20.130	0.000	IN:	RR48D	0.1518	0.1518	LIBUSE INFREQ
2	0.1824	0.0333	0.0310	14.676	0.000	0.0102	9.032	0.003	IN:	RR49C	0.1021	0.0797	OLCUSE OCCAS
3	0.2162	0.0468	0.0434	13.929	0.000	0.0135	12.056	0.001	IN:	RR49D	0.1188	0.0900	OLCUSE RARE
4	0.2361	0.0557	0.0513	12.558	0.000	0.0090	8.097	0.005	IN:	RQ53A	-0.0950	-0.0871	FROM A FRIEND
5	0.2529	0.0640	0.0585	11.618	0.000	0.0082	7.473	0.006	IN:	RQ53E	-0.0908	-0.0932	FROM LIBRARY COURSE
6	0.2658	0.0707	0.0641	10.758	0.000	0.0067	6.110	0.014	IN:	RR56A	-0.0832	-0.0598	GRADE SCHOOL
7	0.2769	0.0767	0.0691	10.062	0.000	0.0060	5.538	0.019	IN:	RR54F	0.0779	0.0819	45 - 54 YEARS
8	0.2869	0.0823	0.0736	9.494	0.000	0.0056	5.171	0.023	IN:	RR52E	0.0786	0.0580	DISCOV FRIEND - FAMILY
9	0.2960	0.0876	0.0779	9.027	0.000	0.0053	4.939	0.027	IN:	RR49B	0.0968	-0.0531	OLCUSE MOSTLY
10	0.3049	0.0930	0.0822	8.661	0.000	0.0054	4.990	0.026	IN:	RR49E	0.0925	0.0430	OLCUSE NEW
11	0.3135	0.0983	0.0865	8.361	0.000	0.0053	4.954	0.026	IN:	RR59F	0.0731	0.0797	FACULTY

VARIABLE(S) ENTERED ON STEP NUMBER 11.. RR59F FACULTY

MULTIPLE R	0.31347		
R SQUARE	0.09826	R SQUARE CHANGE	0.00529
ADJUSTED R SQUARE	0.08651	F CHANGE	4.95409
STANDARD ERROR	0.91712	SIGNIF F CHANGE	0.0263

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	11	77.35983	7.03271
RESIDUAL	844	709.90080	0.84111

F = 8.36118 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR48D	0.70759	0.14283	0.17479	4.954	0.0000
RR49C	0.49460	0.10008	0.24693	4.942	0.0000
RR49D	0.66422	0.14442	0.17939	4.599	0.0000
RQ53A	-0.39465	0.11977	-0.11332	-3.295	0.0010
RQ53E	-0.62028	0.22264	-0.09140	-2.786	0.0055
RR56A	-0.44156	0.20236	-0.07321	-2.182	0.0294
RR54F	0.61057	0.24468	0.08213	2.495	0.0128
RR52E	0.29914	0.12428	0.08277	2.407	0.0163
RR49B	0.31446	0.10101	0.15547	3.113	0.0019
RR49E	0.31456	0.13748	0.09458	2.288	0.0224
RR59F	0.39776	0.17871	0.07312	2.226	0.0263
(CONSTANT)	2.55213	0.08704		29.322	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53B	-0.03462	-0.03607	0.42719	-1.048	0.2949
RQ53C	-0.00149	-0.00152	0.42189	-0.044	0.9648
RQ53D	0.03128	0.03240	0.42738	0.941	0.3468
RQ53G	-0.00664	-0.00683	0.42165	-0.198	0.8428
RQ55	-0.04616	-0.04755	0.42776	-1.382	0.1673
RQ58A	-0.03812	-0.03798	0.42781	-1.104	0.2701
RQ58B	0.04875	0.04776	0.42746	1.388	0.1654
RQ58C	-0.01855	-0.01898	0.42720	-0.551	0.5817
RR48B	0.02077	0.02121	0.42705	0.616	0.5380
RR48C	0.06059	0.06294	0.42306	1.831	0.0674
RR50B	0.04238	0.04344	0.42078	1.263	0.2071
RR50C	-0.06592	-0.06714	0.41975	-1.954	0.0511
RR50D	-0.05114	-0.05313	0.42508	-1.545	0.1228
RR50E	-0.02036	-0.02053	0.42346	-0.596	0.5513
RR51B	0.02578	0.02691	0.42752	0.782	0.4347
RR51C	-0.05298	-0.05526	0.42753	-1.607	0.1084
RR51D	-0.03086	-0.03216	0.42598	-0.934	0.3504
RR51E	0.02317	0.02427	0.42763	0.705	0.4811
RR51F	0.05158	0.05396	0.42690	1.569	0.1170
RR52B	0.01001	0.01041	0.42780	0.302	0.7626
RR52C	-0.02652	-0.02778	0.42790	-0.807	0.4200
RR52D	0.06027	0.05702	0.42769	1.658	0.0976
RR52F	0.00156	0.00159	0.42788	0.046	0.9632
RR54A	-0.01475	-0.01345	0.42014	-0.390	0.6963
RR54C	0.01181	0.01192	0.42182	0.346	0.7293
RR54D	-0.02058	-0.02133	0.42792	-0.619	0.5358
RR54E	-0.01849	-0.01919	0.42791	-0.557	0.5775
RR54G	0.01002	0.01043	0.42722	0.303	0.7620
RR54H	0.02458	0.02213	0.42708	0.643	0.5206
RR55C	-0.01134	-0.01126	0.42790	-0.327	0.7437
RR56D	0.02578	0.02576	0.42632	0.748	0.4546
RR57B	0.03439	0.03612	0.42792	1.049	0.2943
RR57C	0.04083	0.04275	0.42783	1.242	0.2144
RR57D	0.04028	0.04208	0.42784	1.223	0.2217
RR57E	0.04035	0.04211	0.42749	1.224	0.2214
RR57F	-0.05594	-0.05860	0.42791	-1.704	0.0887
RR57G	-0.04174	-0.04379	0.42783	-1.273	0.2035
RR57H	-0.02223	-0.02331	0.42764	-0.677	0.4986
RR57I	-0.02630	-0.02742	0.42449	-0.796	0.4261
RR59R	0.02647	0.02655	0.40978	0.771	0.4409

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

----VARI				
RR59C	-0.01131	-0.01181	0.42638	-0.343 0.7317
RR59D	-0.01746	-0.01832	0.42777	-0.532 0.5948
RR59E	0.01486	0.01548	0.42711	0.450 0.6531
RR59G	-0.650D-03	-0.00067	0.42625	-0.020 0.9844
RR59H	-0.02311	-0.02270	0.41747	-0.659 0.5099

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 2.

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR57J

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1090	0.0119	0.0107	10.277	0.001	0.0119	10.277	0.001	IN:	RQ58B	0.1090	0.1090	TEACHING
2	0.1525	0.0233	0.0210	10.156	0.000	0.0114	9.928	0.002	IN:	RR52E	0.1066	0.1050	DISCOV FRIEND - FAMILY
3	0.1818	0.0331	0.0297	9.710	0.000	0.0098	8.637	0.003	IN:	RR50C	-0.0994	-0.1061	CATUSE OCCAS
4	0.2109	0.0445	0.0400	9.905	0.000	0.0114	10.173	0.001	IN:	RR49C	0.1082	0.0845	OLCUSE OCCAS
5	0.2409	0.0581	0.0525	10.477	0.000	0.0136	12.246	0.000	IN:	RR49D	0.1193	0.0917	OLCUSE RARE
6	0.2617	0.0685	0.0619	10.403	0.000	0.0104	9.509	0.002	IN:	RQ53A	-0.1071	-0.0666	FROM A FRIEND
7	0.2758	0.0761	0.0684	9.972	0.000	0.0076	6.947	0.009	IN:	RR48D	0.0883	0.0870	LIBUSE INFREQ
8	0.2870	0.0823	0.0737	9.500	0.000	0.0063	5.802	0.016	IN:	RQ53D	0.0797	0.0702	FROM LIBRARY STAFF
9	0.2951	0.0871	0.0774	8.970	0.000	0.0048	4.419	0.036	IN:	RR51F	0.0694	0.0516	CPTRUSE NEVER
10	0.3024	0.0915	0.0807	8.506	0.000	0.0043	4.042	0.045	IN:	RR49B	0.0868	-0.0511	OLCUSE MOSTLY
11	0.3100	0.0961	0.0843	8.155	0.000	0.0046	4.313	0.038	IN:	RR59C	-0.0685	-0.0547	GRAD MASTER
12	0.3168	0.1004	0.0876	7.838	0.000	0.0043	4.024	0.045	IN:	RR54F	0.0663	0.0783	45 - 54 YEARS

VARIABLE(S) ENTERED ON STEP NUMBER 12.. RR54F 45 - 54 YEARS

MULTIPLE R	0.31681		
R SQUARE	0.10037	R SQUARE CHANGE	0.00429
ADJUSTED R SQUARE	0.08756	F CHANGE	4.02429
STANDARD ERROR	1.04330	SIGNIF F CHANGE	0.0452

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	12	102.37360	8.53113
RESIDUAL	843	917.58489	1.08848

F = 7.83769 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RQ53B	0.40922	0.13719	0.09852	2.983	0.0029
RR52E	0.58063	0.14133	0.14115	4.108	0.0000
RR50C	-0.27795	0.07536	-0.12356	-3.688	0.0002
RR49C	0.48145	0.09987	0.21117	4.821	0.0000
RR49D	0.65882	0.15377	0.15632	4.285	0.0000
RQ53A	-0.48423	0.13662	-0.12216	-3.544	0.0004
RR48D	0.46376	0.15677	0.10065	2.958	0.0032
RQ53D	0.36360	0.15828	0.07552	2.297	0.0219
RR51F	0.15398	0.07565	0.06693	2.035	0.0421
RR49B	0.22307	0.09931	0.09689	2.246	0.0250
RR59C	-0.29587	0.14665	-0.06645	-2.018	0.0440
RR54F	0.56112	0.27971	0.06631	2.006	0.0452
(CONSTANT)	1.88418	0.08767		21.491	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53B	-0.03941	-0.04100	0.55600	-1.191	0.2341
RQ53C	-0.04201	-0.04265	0.55146	-1.239	0.2157
RQ53E	-0.03135	-0.03283	0.55454	-0.953	0.3408
RQ53G	0.02214	0.02270	0.55292	0.659	0.5101
RQ55	-0.02436	-0.02499	0.55538	-0.725	0.4684
RQ58A	-0.04053	-0.04003	0.55614	-1.163	0.2453
RQ58C	-0.00829	-0.00841	0.55595	-0.244	0.8072
RR48B	-0.00242	-0.00246	0.55397	-0.071	0.9431
RR48C	0.03442	0.03569	0.55040	1.036	0.3004
RR49E	0.01531	0.01273	0.42032	0.370	0.7113
RR50B	0.02575	0.02275	0.54824	0.660	0.5096
RR50D	-0.03969	-0.03948	0.55614	-1.147	0.2519
RR50E	-0.05100	-0.05108	0.54952	-1.484	0.1382
RR51B	0.04335	0.04212	0.55486	1.223	0.2216
RR51C	-0.01740	-0.01754	0.55523	-0.509	0.6109
RR51D	-0.02665	-0.02673	0.55376	-0.776	0.4381
RR51E	0.01212	0.01243	0.55604	0.361	0.7184
RR52B	-0.00283	-0.00296	0.55606	-0.086	0.9316
RR52C	0.01400	0.01470	0.55578	0.427	0.6698
RR52D	-0.04325	-0.04525	0.55611	-1.314	0.1890
RR52F	0.01248	0.01229	0.55614	0.357	0.7214
RR54A	-0.00671	-0.00688	0.54711	-0.200	0.8417
RR54C	0.00656	0.00668	0.54947	0.194	0.8464
RR54D	0.00984	0.01014	0.55614	0.294	0.7686
RR54E	-0.00893	-0.00920	0.55605	-0.267	0.7895
RR54G	-0.00661	-0.00677	0.55570	-0.197	0.8442
RR54H	-0.02893	-0.02972	0.55497	-0.863	0.3884
RR56A	-0.04335	-0.04423	0.55416	-1.285	0.1992
RR56C	0.01370	0.01284	0.55587	0.372	0.7096
RR56D	0.03532	0.03314	0.55415	0.962	0.3363
RR57B	0.02086	0.02180	0.55588	0.633	0.5270
RR57C	0.04334	0.04534	0.55614	1.317	0.1882
RR57D	0.01905	0.01995	0.55614	0.579	0.5628
RR57E	0.04293	0.04330	0.55612	1.258	0.2089
RR57F	-0.06103	-0.06337	0.55614	-1.842	0.0658
RR57G	0.00447	0.00470	0.55576	0.137	0.8914
RR57H	0.00347	0.00364	0.55611	0.106	0.9160
RR57I	-0.01340	-0.01402	0.55512	-0.407	0.6843
RR59B	0.00560	0.00544	0.53535	0.158	0.8745
RR59D	-0.01532	-0.01585	0.55536	-0.460	0.6457

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

----VARI					
RR59E	0.02492	0.02590	0.55424	0.752	0.4523
RR59F	-0.00585	-0.00565	0.55535	-0.164	0.8698
RR59G	-0.01084	-0.01126	0.55348	-0.327	0.7439
RR59H	-0.03668	-0.03624	0.54157	-1.052	0.2930

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 3.

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR57J

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1198	0.0144	0.0132	12.433	0.000	0.0144	12.433	0.000	IN:	RR49C	0.1198	0.1198	OLCUSE OCCAS
2	0.1777	0.0316	0.0293	13.903	0.000	0.0172	15.166	0.000	IN:	RR49D	0.1341	0.1035	OLCUSE RARE
3	0.2079	0.0432	0.0399	12.833	0.000	0.0117	10.387	0.001	IN:	RR56D	0.1081	0.1138	COLLEGE GRADUATE
4	0.2187	0.0478	0.0434	10.690	0.000	0.0046	4.120	0.043	IN:	RQ58C	-0.0778	-0.0193	RESEARCH
5	0.2287	0.0523	0.0467	9.381	0.000	0.0045	3.993	0.046	IN:	RR48D	0.0675	0.0388	LIBUSE INFREQ
6	0.2399	0.0575	0.0509	8.639	0.000	0.0052	4.726	0.030	IN:	RR56A	-0.0742	-0.0822	GRADE SCHOOL

VARIABLE(S) ENTERED ON STEP NUMBER 6.. RR56A GRADE SCHOOL

MULTIPLE R	0.23988		
R SQUARE	0.05754	R SQUARE CHANGE	0.00525
ADJUSTED R SQUARE	0.05088	F CHANGE	4.72581
STANDARD ERROR	0.48716	SIGNIF F CHANGE	0.0300

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	6	12.30159	2.05026
RESIDUAL	849	201.48909	0.23733

F = 8.63905 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

VARIABLES IN THE EQUATION

VARIABLE	B	SE B	BETA	T	SIG T
RR49C	0.15291	0.03608	0.14650	4.238	0.0000
RR49D	0.25485	0.06589	0.13208	3.868	0.0001
RR56D	0.14643	0.04088	0.13784	3.582	0.0004
RQ58C	-0.07795	0.03995	-0.07468	-1.951	0.0514
RR48D	0.16822	0.07207	0.07974	2.334	0.0198
RR56A	-0.23307	0.10721	-0.07416	-2.174	0.0300
(CONSTANT)	1.41627	0.02716		52.153	0.0000

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.02012	-0.02061	0.74875	-0.600	0.5484
RQ53B	-0.01249	-0.01276	0.74869	-0.372	0.7103
RQ53C	0.01049	0.01070	0.74841	0.312	0.7553
RQ53D	-0.01414	-0.01445	0.74369	-0.421	0.6739
RQ53E	-0.02971	-0.03054	0.74934	-0.890	0.3739
RQ53G	-0.03138	-0.03206	0.74579	-0.934	0.3506
RQ55	0.00231	0.00237	0.74962	0.069	0.9451
RQ58A	-0.02420	-0.01591	0.40711	-0.463	0.6433
RQ58B	0.341D-03	0.00034	0.71994	0.010	0.9921
RR48B	0.01915	0.01919	0.74863	0.559	0.5763
RR48C	0.02547	0.02602	0.74815	0.758	0.4488
RR49B	-0.00337	-0.00263	0.56552	-0.076	0.9390
RR49E	-0.04189	-0.03933	0.74914	-1.146	0.2521
RR50B	-0.03260	-0.03305	0.74873	-0.963	0.3358
RR50C	-0.04499	-0.04476	0.74659	-1.305	0.1923
RR50D	0.03646	0.03705	0.74231	1.080	0.2806
RR50E	0.01873	0.01859	0.74675	0.541	0.5884
RR51B	-0.03408	-0.03502	0.74966	-1.020	0.3079
RR51C	0.00743	0.00760	0.74886	0.221	0.8249
RR51D	-0.04446	-0.04558	0.74959	-1.329	0.1843
RR51E	0.01947	0.01995	0.74689	0.581	0.5614
RR51F	0.02264	0.02324	0.74928	0.677	0.4987
RR52B	-0.01080	-0.01110	0.74868	-0.323	0.7467
RR52C	-0.03335	-0.03423	0.74968	-0.997	0.3189
RR52D	0.02278	0.02325	0.74888	0.677	0.4984
RR52E	0.04066	0.04157	0.74206	1.212	0.2260
RR52F	0.02470	0.02495	0.73711	0.727	0.4676
RR54A	-0.700D-03	-0.00063	0.74547	-0.018	0.9853
RR54C	-0.01728	-0.01684	0.71862	-0.490	0.6240
RR54D	0.01812	0.01636	0.64035	0.476	0.6339
RR54E	-0.00119	-0.00119	0.72378	-0.035	0.9724
RR54F	0.02282	0.02315	0.74009	0.674	0.5003
RR54G	-0.02080	-0.02119	0.74514	-0.617	0.5373
RR54H	0.05698	0.05124	0.74967	1.494	0.1356
RR56C	-0.02179	-0.00955	0.18103	-0.278	0.7810
RR57B	0.01553	0.01591	0.74547	0.463	0.6433
RR57C	0.01095	0.01124	0.74968	0.327	0.7435
RR57D	0.00931	0.00953	0.74911	0.278	0.7814
RR57E	0.02925	0.02989	0.74213	0.871	0.3842
RR57F	0.00714	0.00728	0.74727	0.212	0.8321

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

----VARI					
RR57G	0.00363	0.00372	0.74407	0.108	0.9139
RR57H	-0.01645	-0.01687	0.74443	-0.491	0.6233
RR57I	-0.00661	-0.00674	0.74139	-0.196	0.8444
RR59B	0.01649	0.01520	0.67744	0.443	0.6580
RR59C	-0.05641	-0.05439	0.66855	-1.586	0.1130
RR59D	0.00501	0.00465	0.69191	0.135	0.8923
RR59E	0.01205	0.01211	0.71939	0.353	0.7244
RR59F	0.05647	0.05618	0.72899	1.638	0.1017
RR59G	0.03465	0.03484	0.73127	1.015	0.3103
RR59H	-0.01825	-0.01754	0.73694	-0.511	0.6095

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 4.

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR57J

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1670	0.0279	0.0267	24.495	0.000	0.0279	24.495	0.000	IN:	RR[illegible]	0.1670	0.1670	65 AND OVER
2	0.2032	0.0413	0.0390	18.370	0.000	0.0134	11.931	0.001	IN:	RQ53C	-0.1162	-0.1286	BY INSTR ON TERMINAL
3	0.2311	0.0534	0.0501	16.025	0.000	0.0121	10.908	0.001	IN:	RR49D	0.1102	0.1091	OLCUSE RARE
4	0.2648	0.0701	0.0658	16.044	0.000	0.0167	15.296	0.000	IN:	RR49C	0.1323	0.0938	OLCUSE OCCAS
5	0.2807	0.0788	0.0734	14.540	0.000	0.0087	7.996	0.005	IN:	RR48D	0.0955	0.1047	LIBUSE INFREQ
6	0.2933	0.0860	0.0796	13.316	0.000	0.0072	6.707	0.010	IN:	RQ55	-0.0854	-0.0961	MALE
7	0.3023	0.0914	0.0839	12.188	0.000	0.0054	5.043	0.025	IN:	RR57D	-0.0739	-0.0582	BUSINESS-MANAGEMENT
8	0.3091	0.0955	0.0870	11.184	0.000	0.0041	3.863	0.050	IN:	RR50B	0.0651	0.0485	CATUSE MOSTLY

VARIABLE(S) ENTERED ON STEP NUMBER 8.. RR50B CATUSE MOSTLY

MULTIPLE R	0.30909		
R SQUARE	0.09554	R SQUARE CHANGE	0.00413
ADJUSTED R SQUARE	0.08700	F CHANGE	3.86327
STANDARD ERROR	0.70322	SIGNIF F CHANGE	0.0497

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	8	44.24395	5.53049
RESIDUAL	847	418.85147	0.49451

F = 11.18374 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR54H	0.88790	0.21305	0.13953	4.168	0.0000
RQ53C	-0.18213	0.04882	-0.12279	-3.730	0.0002
RR49D	0.42393	0.09530	0.14928	4.448	0.0000
RR49C	0.24036	0.05214	0.15646	4.610	0.0000
RR48D	0.31816	0.10454	0.10247	3.043	0.0024
RQ55	-0.11955	0.05173	-0.07647	-2.311	0.0211
RR57D	-0.25242	0.11370	-0.07296	-2.220	0.0267
RR50B	0.10511	0.05347	0.06512	1.966	0.0497
(CONSTANT)	1.41926	0.05903		24.044	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.05473	-0.05580	0.92712	-1.626	0.1044
RQ53B	-0.05725	-0.05909	0.92661	-1.722	0.0855
RQ53D	0.02811	0.02920	0.92677	0.850	0.3957
RQ53E	-0.02890	-0.03004	0.92611	-0.874	0.3823
RQ53G	0.03947	0.03840	0.85600	1.118	0.2641
RQ58A	-0.05695	-0.05854	0.92595	-1.706	0.0884
RQ58B	0.05878	0.06126	0.92500	1.785	0.0746
RQ58C	-0.01635	-0.01689	0.92571	-0.491	0.6234
RR48B	-0.03468	-0.03530	0.89900	-1.027	0.3046
RR48C	0.03874	0.04023	0.92073	1.171	0.2419
RR49B	0.05057	0.03956	0.55369	1.152	0.2498
RR49E	-0.00916	-0.00872	0.81965	-0.254	0.7999
RR50C	0.01059	0.00940	0.71254	0.273	0.7846
RR50D	-0.02443	-0.02490	0.92473	-0.724	0.4690
RR50E	-0.02976	-0.02995	0.91017	-0.872	0.3836
RR51B	0.02927	0.03049	0.92716	0.887	0.3752
RR51C	-0.03168	-0.03309	0.91959	-0.963	0.3359
RR51D	0.01860	0.01948	0.92320	0.567	0.5711
RR51E	0.00840	0.00879	0.92572	0.256	0.7984
RR51F	0.02461	0.02562	0.92697	0.746	0.4561
RR52B	-0.01884	-0.01972	0.92581	-0.574	0.5664
RR52C	-0.01762	-0.01846	0.92592	-0.537	0.5914
RR52D	0.02919	0.03011	0.92609	0.876	0.3812
RR52E	0.03895	0.04050	0.92708	1.179	0.2388
RR52F	-0.186D-03	-0.00019	0.92714	-0.006	0.9955
RR54A	0.03494	0.03625	0.92193	1.055	0.2917
RR54C	0.01506	0.01558	0.92217	0.453	0.6506
RR54D	0.01170	0.01214	0.92701	0.353	0.7241
RR54E	0.01014	0.01060	0.92716	0.308	0.7579
RR54F	-0.00486	-0.00510	0.92653	-0.148	0.8822
RR54G	0.04115	0.04320	0.92698	1.258	0.2089
RR56A	-0.00912	-0.00836	0.76040	-0.243	0.8078
RR56C	-0.02428	-0.02521	0.92703	-0.734	0.4634
RR56D	0.02205	0.02299	0.92472	0.669	0.5038
RR57B	0.01704	0.01768	0.92628	0.514	0.6072
RR57C	0.01940	0.02015	0.92716	0.586	0.5579
RR57E	0.03740	0.03871	0.92702	1.127	0.2602
RR57F	-0.05771	-0.05952	0.92717	-1.734	0.0832
RR57G	0.01289	0.01350	0.92715	0.393	0.6946
RR57H	-0.389D-03	-0.00041	0.92717	-0.012	0.9906

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

----VARI					
RR57I	0.01067	0.01117	0.92569	0.325	0.7454
RR59B	0.01073	0.01109	0.91161	0.322	0.7472
RR59C	0.01465	0.01533	0.92483	0.446	0.6557
RR59D	0.02466	0.02567	0.92676	0.747	0.4553
RR59E	0.04469	0.04642	0.92597	1.352	0.1768
RR59F	0.01363	0.01400	0.91471	0.407	0.6840
RR59G	0.01160	0.01215	0.92489	0.353	0.7238
RR59H	-0.03711	-0.03774	0.91030	-1.099	0.2723

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 5.

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR57J

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1724	0.0297	0.0285	24.387	0.000	0.0297	24.387	0.000	IN:	RR49C	0.1724	0.1724	OLCUSE OCCAS
2	0.2029	0.0412	0.0388	17.069	0.000	0.0114	9.492	0.002	IN:	RR50B	0.1073	0.0931	CATUSE MOSTLY
3	0.2249	0.0506	0.0470	14.095	0.000	0.0094	7.852	0.005	IN:	RR49D	0.0991	0.0556	OLCUSE RARE
4	0.2422	0.0587	0.0539	12.356	0.000	0.0081	6.829	0.009	IN:	RR56D	0.0906	0.1086	COLLEGE GRADUATE
5	0.2590	0.0671	0.0612	11.392	0.000	0.0084	7.152	0.008	IN:	RR51F	0.0919	0.0814	CPTRUSE NEVER
6	0.2687	0.0722	0.0652	10.261	0.000	0.0051	4.368	0.037	IN:	RR50D	-0.0742	-0.1007	CATUSE RARE
7	0.2886	0.0833	0.0752	10.258	0.000	0.0111	9.568	0.002	IN:	RR50C	-0.1422	-0.0726	CATUSE OCCAS
8	0.2886	0.0833	0.0763	11.979	0.000	-0.0000	0.018	0.895	OUT:	RR50B		0.0931	CATUSE MOSTLY
9	0.3049	0.0930	0.0849	11.567	0.000	0.0097	8.419	0.004	IN:	RR50E	-0.1020	-0.0848	CATUSE NEVER
10	0.3004	0.0903	0.0833	13.078	0.000	-0.0027	2.363	0.125	OUT:	RR56D		0.1086	COLLEGE GRADUATE
11	0.3084	0.0951	0.0871	11.860	0.000	0.0048	4.230	0.040	IN:	RR48D	0.0719	0.0260	LIBUSE INFREQ

VARIABLE(S) ENTERED ON STEP NUMBER 11.. RR48D LIBUSE INFREQ

MULTIPLE R	0.30838		
R SQUARE	0.09510	R SQUARE CHANGE	0.00485
ADJUSTED R SQUARE	0.08708	F CHANGE	4.23017
STANDARD ERROR	0.70004	SIGNIF F CHANGE	0.0400

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	7	40.68431	5.81204
RESIDUAL	790	387.13965	0.49005

F = 11.86010 . SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR49C	0.34645	0.05427	0.22654	6.384	0.0000
RR49D	0.32322	0.09824	0.11433	3.290	0.0010
RR51F	0.14009	0.05246	0.09078	2.670	0.0077
RR50D	-0.39090	0.08315	-0.16793	-4.701	0.0000
RR50C	-0.27027	0.05526	-0.17911	-4.891	0.0000
RR50E	-0.42140	0.12054	-0.12407	-3.496	0.0005
RR48D	0.22232	0.10810	0.07193	2.057	0.0400
(CONSTANT)	1.41944	0.04477		31.709	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.05058	-0.05300	0.85418	-1.491	0.1364
RQ53B	-0.01910	-0.01990	0.85260	-0.559	0.5764
RQ53C	-0.01589	-0.01655	0.85366	-0.465	0.6421
RQ53D	0.04124	0.04325	0.85398	1.216	0.2243
RQ53E	0.00371	0.00388	0.84745	0.109	0.9132
RQ53G	0.01582	0.01642	0.85397	0.461	0.6446
RQ55	0.01962	0.02031	0.84360	0.571	0.5684
RQ58A	0.01521	0.01536	0.80525	0.432	0.6661
RQ58B	0.02599	0.02701	0.84439	0.759	0.4481
RQ58C	-0.00358	-0.00363	0.81370	-0.102	0.9188
RR48B	0.01039	0.01059	0.85385	0.298	0.7661
RR48C	0.00616	0.00639	0.84899	0.180	0.8575
RR49B	0.08421	0.06635	0.55456	1.868	0.0622
RR49E	-0.01155	-0.01098	0.81782	-0.308	0.7579
RR50B	-0.05588	-0.04194	0.47854	-1.179	0.2387
RR51B	0.06552	0.06391	0.85420	1.799	0.0724
RR51C	-0.02248	-0.02269	0.85251	-0.638	0.5240
RR51D	-0.03024	-0.03046	0.85421	-0.856	0.3923
RR51E	0.01777	0.01813	0.85325	0.509	0.6108
RR52B	-0.01279	-0.01342	0.85412	-0.377	0.7064
RR52C	-0.02602	-0.02730	0.85420	-0.767	0.4432
RR52D	-0.00816	-0.00852	0.85052	-0.239	0.8110
RR52E	-0.01703	-0.01783	0.85330	-0.501	0.6166
RR52F	-0.01144	-0.01197	0.85333	-0.336	0.7369
RR54A	-0.00605	-0.00628	0.85236	-0.176	0.8600
RR54C	0.01308	0.01347	0.83593	0.378	0.7052
RR54D	0.03883	0.03998	0.83600	1.124	0.2614
RR54E	-0.01067	-0.01109	0.83992	-0.312	0.7554
RR54F	0.05639	0.05876	0.84695	1.653	0.0987
RR54G	-0.06037	-0.06326	0.85102	-1.780	0.0754
RR54H	0.01868	0.01922	0.85232	0.540	0.5895
RR56A	-0.02957	-0.03022	0.84978	-0.849	0.3959
RR56C	-0.02734	-0.02769	0.81260	-0.778	0.4368
RR56D	0.05439	0.05514	0.82215	1.551	0.1212
RR57B	-0.00908	-0.00948	0.84829	-0.266	0.7901
RR57C	0.04515	0.04706	0.85303	1.323	0.1861
RR57D	-0.03278	-0.03421	0.85394	-0.961	0.3366
RR57E	-0.02772	-0.02902	0.85408	-0.815	0.4151
RR57F	-0.02982	-0.03090	0.85177	-0.868	0.3855
RR57G	-0.00266	-0.00279	0.85397	-0.078	0.9376

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

----VARI					
RR57H	-0.02711	-0.02841	0.85257	-0.798	0.4250
RR57I	0.03773	0.03947	0.85412	1.110	0.2675
RR59B	0.00352	0.00359	0.82906	0.101	0.9198
RR59C	0.01520	0.01588	0.85352	0.446	0.6557
RR59D	0.01470	0.01512	0.83056	0.425	0.6712
RR59E	0.00781	0.00819	0.85360	0.230	0.8182
RR59F	0.03568	0.03690	0.83325	1.037	0.3000
RR59G	0.06342	0.06650	0.85417	1.872	0.0616
RR59H	-0.02466	-0.02495	0.84613	-0.701	0.4835

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

VARIABLE LIST NUMBER 1. PAIRWISE DELETION OF MISSING DATA.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

	MEAN	CASES	LABEL
RQ5	2.638	1294	IN THIS SEARCH I FOUND
RQ6	1.945	1298	IN REL TO WHAT I WAS LOOKING FOR SEARCH
RQ7	1.579	1303	CAME ACROSS OTHER THINGS OF INTEREST
RQ9	1.451	1298	GENERAL ATTITUDE TOWARD COMPUTER CAT IS
RQ10	1.351	1198	COMPUTER CAT COMPARED TO OTHER CAT
RQ53A	0.182	1278	FROM A FRIEND
RQ53B	0.743	1278	BY PRINTED INSTR
RQ53C	0.163	1278	BY INSTR ON TERMINAL
RQ53D	0.175	1278	FROM LIBRARY STAFF
RQ53E	0.021	1278	FROM LIBRARY COURSE
RQ53F	99.000	1278	AUDIO-VISUAL PROG
RQ53G	0.177	1278	BY MYSELF
RQ55	0.540	1262	MALE
RQ58A	0.777	1179	COURSE WORK
RQ58B	0.083	1179	TEACHING
RQ58C	0.376	1179	RESEARCH
RR48B	0.405	1279	LIBUSE WEEKLY
RR48C	0.131	1279	LIBUSE MONTHLY
RR48D	0.094	1279	LIBUSE INFREQ
RR49B	0.453	1286	OLCUSE MOSTLY
RR49C	0.271	1286	OLCUSE OCCAS
RR49D	0.039	1286	OLCUSE RARE
RR49E	0.042	1286	OLCUSE NEW
RR50B	0.213	1277	CATUSE MOSTLY
RR50C	0.413	1277	CATUSE OCCAS
RR50D	0.204	1277	CATUSE RARE
RR50E	0.085	1277	CATUSE NEVER
RR51B	0.168	1277	CPTRUSE WEEKLY
RR51C	0.131	1277	CPTRUSE MONTHLY
RR51D	0.141	1277	CPTRUSE QRTLY
RR51E	0.090	1277	CPTRUSE ANNUAL
RR51F	0.363	1277	CPTRUSE NEVER
RR52B	0.073	1267	DISCOV LIBRARY TOUR
RR52C	0.043	1267	DISCOV ARTICLE-ANNOUNCE
RR52D	0.021	1267	DISCOV INSTRUCTOR
RR52E	0.092	1267	DISCOV FRIEND - FAMILY
RR52F	0.092	1267	DISCOV LIBRARY STAFF
RR54A	0.005	1279	14 AND UNDER
RR54C	0.448	1279	20 - 24 YEARS
RR54D	0.203	1279	25 - 34 YEARS
RR54E	0.081	1279	35 - 44 YEARS
RR54F	0.016	1279	45 - 54 YEARS
RR54G	0.009	1279	55 - 64 YEARS
RR54H	0.004	1279	65 AND OVER
RR56A	0.005	1275	GRADE SCHOOL
RR56C	0.540	1275	SOME COLLEGE

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

	MEAN	CASES	LABEL
RR56D	0.428	1275	COLLEGE GRADUATE
RR57B	0.052	1201	PHYS-BIO SCIENCES
RR57C	0.182	1201	SOCIAL SCIENCES
RR57D	0.169	1201	BUSINESS-MANAGEMENT
RR57E	0.057	1201	EDUCATION
RR57F	0.076	1201	ENGINEERING
RR57G	0.036	1201	MEDICAL-HEALTH SCIEN
RR57H	0.031	1201	LAW
RR57I	0.028	1201	MAJOR UNDECLARED
RR57J	0.051	1201	INTERDISCIPLINARY
RR59B	0.309	1182	JUNIOR-SENIOR
RR59C	0.169	1182	GRAD MASTER
RR59D	0.074	1182	DOCTORAL
RR59E	0.032	1182	GRAD PROF
RR59F	0.041	1182	FACULTY
RR59G	0.047	1182	STAFF
RR59H	0.073	1182	OTHER USER

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

VARIABLES IN THE EQUATION

VARIABLE	B	SE B	BETA	T	SIG T
RR59G	-0.41830	0.13333	-0.09350	-3.137	0.0017
RR49D	0.36050	0.14465	0.07332	2.492	0.0128
RR54H	-1.07938	0.44885	-0.07087	-2.405	0.0163
RR56D	0.12457	0.05723	0.06485	2.177	0.0297
(CONSTANT)	2.59423	0.03751		69.156	0.0000

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	0.01695	0.01693	0.95644	0.570	0.5685
RQ53B	-0.00998	-0.00994	0.95371	-0.335	0.7379
RQ53C	-0.01940	-0.01959	0.97004	-0.660	0.5093
RQ53D	0.01003	0.00933	0.84072	0.314	0.7533
RQ53E	-0.00138	-0.00139	0.96925	-0.047	0.9626
RQ53G	0.03931	0.03965	0.96832	1.337	0.1815
RQ55	-0.00599	-0.00600	0.95571	-0.202	0.8399
RQ58A	-0.01089	-0.01035	0.88132	-0.349	0.7275
RQ58B	-0.01003	-0.00975	0.89901	-0.328	0.7426
RQ58C	-0.01891	-0.01811	0.87850	-0.610	0.5417
RR48B	-0.01734	-0.01720	0.94301	-0.580	0.5623
RR48C	0.02646	0.02667	0.96611	0.899	0.3689
RR48D	0.05164	0.05129	0.95807	1.730	0.0839
RR49B	-0.03656	-0.03601	0.94933	-1.214	0.2250
RR49C	0.02389	0.02380	0.96512	0.802	0.4226
RR49E	0.03112	0.03111	0.96637	1.049	0.2946
RR50B	0.03468	0.03446	0.94320	1.162	0.2456
RR50C	-0.00706	-0.00711	0.96808	-0.240	0.8107
RR50D	-0.02248	-0.02246	0.96184	-0.757	0.4494
RR50E	-0.03828	-0.03788	0.95242	-1.277	0.2018
RR51B	0.369D-03	0.00037	0.96974	0.013	0.9900
RR51C	0.00674	0.00680	0.96811	0.229	0.8188
RR51D	0.03545	0.03582	0.97000	1.207	0.2275
RR51E	-0.02431	-0.02447	0.96922	-0.825	0.4097
RR51F	0.02189	0.02201	0.96208	0.742	0.4583
RR52B	0.00896	0.00902	0.96687	0.304	0.7611
RR52C	-0.01763	-0.01778	0.96738	-0.599	0.5493
RR52D	-0.02048	-0.02066	0.96865	-0.696	0.4865
RR52E	0.01437	0.01438	0.96118	0.485	0.6281
RR52F	0.02824	0.02212	0.59991	0.746	0.4561
RR54C	-0.01145	-0.01130	0.94900	-0.381	0.7036
RR54D	0.03217	0.02884	0.77768	0.972	0.3312
RR54E	0.04279	0.04103	0.89601	1.383	0.1668
RR54F	-0.02067	-0.02060	0.95448	-0.694	0.4878
RR54G	0.00582	0.00580	0.94958	0.195	0.8451
RR56A	-0.03923	-0.03877	0.95192	-1.307	0.1914
RR56C	0.11246	0.03957	0.12119	1.334	0.1824
RR57B	-0.02925	-0.02930	0.96889	-0.988	0.3235
RR57C	0.04600	0.04558	0.93588	1.537	0.1245
RR57D	0.04692	0.04724	0.96711	1.593	0.1114

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 1.

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.0885	0.0078	0.0070	9.001	0.003	0.0078	9.001	0.003	IN:	RR59G	-0.0885	-0.0885	STAFF
2	0.1115	0.0124	0.0107	7.162	0.001	0.0046	5.288	0.022	IN:	RR49D	0.0678	0.0698	OLCUSE RARE
3	0.1306	0.0171	0.0145	6.580	0.000	0.0046	5.362	0.021	IN:	RR54H	-0.0683	-0.0691	65 AND OVER
4	0.1454	0.0211	0.0177	6.136	0.000	0.0041	4.738	0.030	IN:	RR56D	0.0649	0.0439	COLLEGE GRADUATE

VARIABLE(S) ENTERED ON STEP NUMBER 4.. RR56D COLLEGE GRADUATE

MULTIPLE R	0.14542		
R SQUARE	0.02115	R SQUARE CHANGE	0.00408
ADJUSTED R SQUARE	0.01770	F CHANGE	4.73795
STANDARD ERROR	0.94239	SIGNIF F CHANGE	0.0297

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	4	21.79701	5.44925
RESIDUAL	1136	1008.88879	0.88811

F = 6.13581 SIGNIF F = 0.0001

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

----VARI					
RR57E	-0.00351	-0.00351	0.95642	-0.118	0.9058
RR57F	-0.04118	-0.04127	0.95699	-1.392	0.1643
RR57G	-0.04304	-0.04349	0.96989	-1.466	0.1428
RR57H	-0.03373	-0.03397	0.96927	-1.145	0.2524
RR57I	-0.04235	-0.04227	0.94699	-1.425	0.1543
RR57J	0.02296	0.02289	0.95555	0.771	0.4407
RR59B	0.03698	0.03479	0.86261	1.173	0.2412
RR59C	0.03083	0.02622	0.69657	0.884	0.3771
RR59D	-0.00905	-0.00862	0.86689	-0.290	0.7715
RR59E	-0.02169	-0.02136	0.92351	-0.720	0.4718
RR59F	0.03285	0.03188	0.91494	1.075	0.2828
RR59H	0.02722	0.02738	0.96621	0.923	0.3563

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 2.

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1108	0.0123	0.0114	14.144	0.000	0.0123	14.144	0.000	IN:	RR49D	0.1108	0.1108	OLCUSE RARE
2	0.1538	0.0237	0.0219	13.783	0.000	0.0114	13.270	0.000	IN:	RR59C	0.1069	0.1005	GRAD MASTER
3	0.1759	0.0309	0.0284	12.099	0.000	0.0073	8.548	0.004	IN:	RR59G	-0.0858	-0.0984	STAFF
4	0.1850	0.0342	0.0308	10.060	0.000	0.0033	3.854	0.050	IN:	RR54H	-0.0574	-0.0584	65 AND OVER

VARIABLE(S) ENTERED ON STEP NUMBER 4.. RR54H 65 AND OVER

MULTIPLE R	0.18496		
R SQUARE	0.03421	R SQUARE CHANGE	0.00328
ADJUSTED R SQUARE	0.03081	F CHANGE	3.85358
STANDARD ERROR	1.00331	SIGNIF F CHANGE	0.0499

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	4	40.50872	10.12718
RESIDUAL	1136	1143.54111	1.00664

F = 10.06040 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR49D	0.61753	0.15418	0.11718	4.005	0.0001
RR59C	0.26370	0.07977	0.09705	3.306	0.0010
RR59G	-0.39622	0.14081	-0.08263	-2.814	0.0050
RR54H	-0.93748	0.47756	-0.05742	-1.963	0.0499
(CONSTANT)	1.89911	0.03430		55.366	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	0.00301	0.00305	0.98197	0.103	0.9182
RQ53B	-0.03899	-0.03916	0.97160	-1.320	0.1870
RQ53C	-0.03285	-0.03340	0.98588	-1.126	0.2605
RQ53D	0.04312	0.04054	0.84315	1.367	0.1720
RQ53E	-0.00761	-0.00771	0.97766	-0.260	0.7952
RQ53G	0.04757	0.04837	0.98524	1.632	0.1031
RQ55	0.01269	0.01276	0.96914	0.430	0.6674
RQ58A	-0.00249	-0.00250	0.96221	-0.084	0.9328
RQ58B	-0.02126	-0.02153	0.97881	-0.725	0.4683
RQ58C	-0.02780	-0.02816	0.97932	-0.949	0.3427
RR48B	-0.02105	-0.02105	0.95556	-0.709	0.4784
RR48C	0.01700	0.01726	0.98215	0.582	0.5610
RR48D	0.02112	0.02112	0.96594	0.712	0.4767
RR49B	-0.03406	-0.03385	0.95397	-1.141	0.2541
RR49C	0.03266	0.03283	0.97561	1.107	0.2687
RR49E	0.02969	0.02993	0.97983	1.009	0.3133
RR50B	0.04264	0.04307	0.97637	1.452	0.1467
RR50C	-0.01093	-0.01109	0.98376	-0.374	0.7088
RR50D	-0.03242	-0.03273	0.97877	-1.103	0.2702
RR50E	-0.01915	-0.01916	0.96678	-0.646	0.5187
RR51B	0.01932	0.01963	0.98510	0.661	0.5085
RR51C	0.01330	0.01351	0.98460	0.455	0.6491
RR51D	0.00899	0.00914	0.98591	0.308	0.7581
RR51E	-0.01158	-0.01173	0.98515	-0.395	0.6927
RR51F	0.00208	0.00211	0.98549	0.071	0.9432
RR52B	-0.00619	-0.00629	0.98401	-0.212	0.8322
RR52C	-0.02932	-0.02973	0.98221	-1.002	0.3165
RR52D	-0.03313	-0.03349	0.97487	-1.129	0.2592
RR52E	0.02672	0.02702	0.98229	0.911	0.3626
RR52F	0.06816	0.05395	0.59981	1.820	0.0690
RR54C	-0.02489	-0.02499	0.96487	-0.842	0.3998
RR54D	0.01684	0.01627	0.90214	0.548	0.5836
RR54E	0.04144	0.04157	0.96015	1.402	0.1613
RR54F	0.907D-03	0.00091	0.96694	0.031	0.9755
RR54G	0.03414	0.03429	0.96331	1.156	0.2479
RR56A	-0.02609	-0.02599	0.95398	-0.876	0.3812
RR56C	0.00493	0.00420	0.70095	0.142	0.8874
RR56D	0.01887	0.01602	0.69657	0.540	0.5894
RR57B	0.107D-04	0.00001	0.97938	0.000	0.9997
RR57C	0.02053	0.02078	0.97939	0.700	0.4839

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FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

----VARI					
RR57D	0.01898	0.01924	0.98276	0.648	0.5170
RR57E	0.00686	0.00697	0.98422	0.235	0.8145
RR57F	-0.01847	-0.01873	0.98113	-0.631	0.5282
RR57G	-0.02233	-0.02272	0.98567	-0.766	0.4441
RR57H	-0.01329	-0.01345	0.98103	-0.453	0.6505
RR57I	-0.01028	-0.01043	0.98063	-0.351	0.7254
RR57J	-0.00356	-0.00359	0.97779	-0.121	0.9037
RR59B	0.01072	0.01020	0.87422	0.344	0.7311
RR59D	0.00619	0.00622	0.96769	0.210	0.8340
RR59E	-0.00654	-0.00662	0.97892	-0.223	0.8236
RR59F	0.03329	0.03335	0.96916	1.124	0.2612
RR59H	0.01573	0.01578	0.96785	0.532	0.5951

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 3.

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.0778	0.0060	0.0052	6.928	0.009	0.0060	6.928	0.009	IN:	RR59C	0.0778	0.0778	GRAD MASTER
2	0.1036	0.0107	0.0090	6.178	0.002	0.0047	5.400	0.020	IN:	RR57C	0.0688	0.0751	SOCIAL SCIENCES
3	0.1249	0.0156	0.0130	6.009	0.000	0.0049	5.621	0.018	IN:	RR49D	0.0699	0.0625	OLCUSE RARE
4	0.1420	0.0202	0.0167	5.845	0.000	0.0046	5.284	0.022	IN:	RQ53A	-0.0677	-0.0647	FROM A FRIEND
5	0.1577	0.0249	0.0206	5.789	0.000	0.0047	5.476	0.019	IN:	RR51D	0.0686	0.0672	CPTRUSE QRTLY
6	0.1686	0.0284	0.0233	5.533	0.000	0.0036	4.168	0.041	IN:	RQ58C	-0.0601	-0.0491	RESEARCH
7	0.1809	0.0327	0.0267	5.476	0.000	0.0043	5.019	0.025	IN:	RR59F	0.0674	0.0585	FACULTY

VARIABLE(S) ENTERED ON STEP NUMBER 7.. RR59F FACULTY

MULTIPLE R	0.18090		
R SQUARE	0.03272	R SQUARE CHANGE	0.00428
ADJUSTED R SQUARE	0.02675	F CHANGE	5.01898
STANDARD ERROR	0.48719	SIGNIF F CHANGE	0.0253

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	7	9.09821	1.29974
RESIDUAL	1133	268.92238	0.23735

F = 5.47597 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR59C	0.10633	0.03890	0.08076	2.733	0.0064
RR57C	0.09583	0.03775	0.07496	2.538	0.0113
RR49D	0.18216	0.07499	0.07133	2.429	0.0153
RQ53A	-0.08530	0.03762	-0.06672	-2.268	0.0235
RR51D	0.09570	0.04151	0.06746	2.306	0.0213
RQ58C	-0.07414	0.03050	-0.07274	-2.431	0.0152
RR59F	0.16858	0.07525	0.06741	2.240	0.0253
(CONSTANT)	1.55996	0.02241		69.622	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53B	0.04979	0.04920	0.93930	1.658	0.0977
RQ53C	-0.02730	-0.02764	0.94020	-0.930	0.3524
RQ53D	-0.01713	-0.01720	0.92985	-0.579	0.5628
RQ53E	0.02055	0.02078	0.94269	0.699	0.4845
RQ53G	-0.00241	-0.00242	0.94116	-0.081	0.9351
RQ55	-0.02046	-0.02059	0.94120	-0.693	0.4884
RQ58A	-0.00953	-0.00731	0.56793	-0.246	0.8059
RQ58B	-0.01628	-0.01482	0.78929	-0.499	0.6182
RR48B	0.01046	0.01057	0.94279	0.356	0.7222
RR48C	0.02591	0.02630	0.94292	0.885	0.3763
RR48D	-0.01727	-0.01731	0.94187	-0.583	0.5602
RR49B	0.514D-03	0.00051	0.93930	0.017	0.9864
RR49C	0.02660	0.02631	0.93370	0.885	0.3761
RR49E	0.04579	0.04634	0.94161	1.561	0.1189
RR50B	0.00975	0.00972	0.93620	0.327	0.7438
RR50C	0.01663	0.01684	0.93964	0.567	0.5712
RR50D	0.01653	0.01654	0.94046	0.556	0.5780
RR50E	-0.01475	-0.01478	0.94262	-0.497	0.6190
RR51B	0.01244	0.01240	0.94108	0.417	0.6766
RR51C	0.00105	0.00106	0.94290	0.036	0.9717
RR51E	0.00145	0.00146	0.94089	0.049	0.9608
RR51F	0.01654	0.01599	0.90327	0.538	0.5907
RR52B	-0.01143	-0.01155	0.94299	-0.389	0.6976
RR52C	-0.02578	-0.02589	0.92869	-0.871	0.3837
RR52D	0.00593	0.00596	0.94288	0.200	0.8412
RR52E	0.03537	0.03331	0.85487	1.121	0.2624
RR52F	-0.02492	-0.02485	0.92762	-0.836	0.4032
RR54C	0.00873	0.00865	0.91298	0.291	0.7711
RR54D	0.02592	0.02479	0.88454	0.834	0.4043
RR54E	-0.01777	-0.01728	0.89159	-0.581	0.5611
RR54F	0.00741	0.00717	0.85832	0.241	0.8095
RR54G	-0.02311	-0.02310	0.92104	-0.778	0.4370
RR54H	0.02508	0.02517	0.92436	0.847	0.3971
RR56A	-0.04827	-0.04875	0.94293	-1.642	0.1008
RR56C	0.04838	0.03840	0.60942	1.293	0.1963
RR56D	-0.00766	-0.00596	0.58475	-0.200	0.8412
RR57B	-0.00455	-0.00459	0.94295	-0.154	0.8774
RR57D	-0.03565	-0.03500	0.93279	-1.178	0.2389
RR57E	0.03060	0.03072	0.94285	1.034	0.3013
RR57F	-0.03557	-0.03551	0.94203	-1.195	0.2322

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

----VARI					
RR57G	-0.03820	-0.03858	0.94257	-1.299	0.1942
RR57H	-0.03620	-0.03642	0.94155	-1.226	0.2204
RR57I	0.01437	0.01450	0.94234	0.488	0.6257
RR57J	0.03172	0.03175	0.94001	1.069	0.2854
RR59B	0.04057	0.03818	0.85632	1.285	0.1989
RR59D	0.05618	0.05319	0.86700	1.792	0.0734
RR59E	-0.03682	-0.03712	0.93936	-1.250	0.2117
RR59G	-0.01624	-0.01628	0.93735	-0.548	0.5839
RR59H	-0.00575	-0.00566	0.92407	-0.190	0.8490

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 4.

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1239	0.0154	0.0145	17.771	0.000	0.0154	17.771	0.000	IN:	RR50B	0.1239	0.1239	CATUSE MOSTLY
2	0.1708	0.0292	0.0275	17.101	0.000	0.0138	16.193	0.000	IN:	RR49D	0.1177	0.1117	OLCUSE RARE
3	0.1990	0.0396	0.0371	15.629	0.000	0.0104	12.345	0.000	IN:	RR50D	-0.1061	-0.1232	CATUSE RARE
4	0.2227	0.0496	0.0463	14.825	0.000	0.0100	11.962	0.001	IN:	RQ53B	-0.1003	-0.1060	BY PRINTED INSTR
5	0.2391	0.0572	0.0530	13.769	0.000	0.0076	9.122	0.003	IN:	RR50E	-0.0908	-0.0653	CATUSE NEVER
6	0.2638	0.0696	0.0647	14.139	0.000	0.0124	15.131	0.000	IN:	RR50C	-0.2076	-0.0341	CATUSE OCCAS
7	0.2615	0.0684	0.0643	16.658	0.000	-0.0012	1.509	0.220	OUT:	RR50B		0.1239	CATUSE MOSTLY
8	0.2719	0.0739	0.0690	15.088	0.000	0.0056	6.813	0.009	IN:	RR59D	0.0749	0.0826	DOCTORAL
9	0.2811	0.0790	0.0733	13.884	0.000	0.0051	6.244	0.013	IN:	RR49E	0.0772	0.0310	OLCUSE NEW
10	0.2913	0.0849	0.0784	13.124	0.000	0.0059	7.265	0.007	IN:	RR49C	0.0802	0.0099	OLCUSE OCCAS

VARIABLE(S) ENTERED ON STEP NUMBER 10.. RR49C OLCUSE OCCAS

MULTIPLE R	0.29134		
R SQUARE	0.08488	R SQUARE CHANGE	0.00587
ADJUSTED R SQUARE	0.07841	F CHANGE	7.26549
STANDARD ERROR	0.65698	SIGNIF F CHANGE	0.0071

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	8	45.31727	5.66466
RESIDUAL	1132	488.59494	0.43162

F = 13.12415 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR49D	0.52891	0.10325	0.14946	5.123	0.0000
RR50D	-0.40463	0.05715	-0.23852	-7.080	0.0000
RQ53B	-0.15002	0.04499	-0.09579	-3.335	0.0009
RR50E	-0.47544	0.08205	-0.19338	-5.795	0.0000
RR50C	-0.24555	0.04808	-0.17671	-5.107	0.0000
RR59D	0.20466	0.07492	0.07812	2.732	0.0064
RR49E	0.30236	0.10606	0.08865	2.851	0.0044
RR49C	0.12352	0.04583	0.08022	2.695	0.0071
(CONSTANT)	1.70548	0.04920		34.662	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.04906	-0.04961	0.67531	-1.670	0.0951
RQ53C	-0.03246	-0.03358	0.67440	-1.130	0.2587
RQ53D	0.03527	0.03563	0.66540	1.199	0.2308
RQ53E	0.01341	0.01393	0.67524	0.468	0.6395
RQ53G	0.05711	0.05817	0.67445	1.959	0.0503
RQ55	-0.01018	-0.01059	0.67465	-0.356	0.7219
RQ58A	0.01988	0.01996	0.66425	0.672	0.5020
RQ58B	-0.04623	-0.04790	0.67079	-1.613	0.1071
RQ58C	0.00118	0.00116	0.66685	0.039	0.9689
RR48B	-0.01777	-0.01832	0.67233	-0.616	0.5378
RR48C	-0.04151	-0.04314	0.67251	-1.452	0.1468
RR48D	0.00554	0.00500	0.67515	0.168	0.8664
RR49B	0.03945	0.03014	0.53422	1.014	0.3107
RR50B	-0.06135	-0.03852	0.28122	-1.296	0.1951
RR51B	0.00691	0.00718	0.67533	0.241	0.8093
RR51C	0.01936	0.02005	0.67328	0.674	0.5002
RR51D	0.02702	0.02805	0.67488	0.944	0.3455
RR51E	-0.03543	-0.03687	0.67464	-1.241	0.2149
RR51F	0.00243	0.00251	0.67522	0.084	0.9327
RR52B	0.01494	0.01552	0.67532	0.522	0.6017
RR52C	-0.02368	-0.02463	0.67497	-0.829	0.4075
RR52D	0.00104	0.00109	0.67479	0.037	0.9708
RR52E	-0.02373	-0.02415	0.67404	-0.812	0.4168
RR52F	0.03594	0.03612	0.65802	1.216	0.2244
RR54C	-0.02500	-0.02526	0.67031	-0.850	0.3957
RR54D	0.03922	0.03866	0.67380	1.301	0.1935
RR54E	0.04546	0.04607	0.66551	1.551	0.1211
RR54F	-0.01366	-0.01418	0.67133	-0.477	0.6335
RR54G	-0.01548	-0.01612	0.67420	-0.542	0.5877
RR54H	-0.03955	-0.04078	0.67473	-1.372	0.1702
RR56A	-0.04648	-0.04798	0.67533	-1.616	0.1065
RR56C	-0.03803	-0.03691	0.66056	-1.242	0.2144
RR56D	0.05120	0.04936	0.66064	1.662	0.0968
RR57B	-0.02210	-0.02304	0.67532	-0.775	0.4385
RR57C	0.02334	0.02388	0.67394	0.803	0.4220
RR57D	-0.00509	-0.00524	0.67377	-0.176	0.8602
RR57E	-0.02853	-0.02924	0.67285	-0.984	0.3254
RR57F	-0.05397	-0.05602	0.67488	-1.887	0.0594
RR57G	-0.514D-04	-0.00005	0.67404	-0.002	0.9986
RR57H	-0.03624	-0.03763	0.67479	-1.266	0.2057

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

----VARI					
RR57I	0.02643	0.02747	0.67532	0.924	0.3556
RR57J	0.02881	0.02999	0.67479	1.009	0.3132
RR59B	0.01494	0.01514	0.67081	0.509	0.6106
RR59C	0.01916	0.01966	0.67500	0.661	0.5086
RR59E	0.00857	0.00893	0.67524	0.300	0.7640
RR59F	0.01950	0.02005	0.66574	0.674	0.5002
RR59G	0.01791	0.01822	0.66783	0.613	0.5401
RR59H	-0.00115	-0.00113	0.67388	-0.038	0.9696

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 5.

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1651	0.0273	0.0264	30.220	0.000	0.0273	30.220	0.000	IN:	RR50B	0.1651	0.1651	CATUSE MOSTLY
2	0.1932	0.0373	0.0355	20.880	0.000	0.0101	11.253	0.001	IN:	RR50D	-0.1040	-0.1403	CATUSE RARE
3	0.2185	0.0478	0.0451	17.986	0.000	0.0104	11.780	0.001	IN:	RR50E	-0.1057	-0.1044	CATUSE NEVER
4	0.2605	0.0678	0.0644	19.560	0.000	0.0201	23.171	0.000	IN:	RR50C	-0.2624	-0.0462	CATUSE OCCAS
5	0.2574	0.0663	0.0637	25.459	0.000	-0.0016	1.808	0.179	OUT:	RR50B		0.1651	CATUSE MOSTLY
6	0.2680	0.0718	0.0684	20.797	0.000	0.0055	6.426	0.011	IN:	RR57H	-0.0745	-0.0764	LAW
7	0.2769	0.0767	0.0724	17.838	0.000	0.0049	5.644	0.018	IN:	RR49D	0.0704	0.0351	OLCUSE RARE
8	0.2862	0.0819	0.0768	15.954	0.000	0.0052	6.111	0.014	IN:	RR59B	-0.0731	-0.0923	JUNIOR-SENIOR

VARIABLE(S) ENTERED ON STEP NUMBER 8.. RR59B JUNIOR-SENIOR

MULTIPLE R	0.28619		
R SQUARE	0.08191	R SQUARE CHANGE	0.00523
ADJUSTED R SQUARE	0.07677	F CHANGE	6.11107
STANDARD ERROR	0.60128	SIGNIF F CHANGE	0.0136

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	6	34.60915	5.76819
RESIDUAL	1073	387.93572	0.36154

F = 15.95437 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR50D	-0.40003	0.05301	-0.25788	-7.546	0.0000
RR50E	-0.44450	0.07181	-0.19772	-6.190	0.0000
RR50C	-0.25557	0.04422	-0.20114	-5.779	0.0000
RR57H	-0.30566	0.10645	-0.08444	-2.871	0.0042
RR49D	0.23824	0.09576	0.07362	2.488	0.0130
RR59B	-0.09893	0.04002	-0.07307	-2.472	0.0136
(CONSTANT)	1.60611	0.03492		45.994	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.03455	-0.03588	0.70613	-1.176	0.2400
RQ53B	-0.04010	-0.04145	0.70370	-1.358	0.1747
RQ53C	-0.02817	-0.02936	0.70549	-0.962	0.3364
RQ53D	0.03925	0.03993	0.69273	1.308	0.1910
RQ53E	-0.00677	-0.00705	0.70618	-0.231	0.8175
RQ53G	0.02625	0.02736	0.70613	0.896	0.3703
RQ55	-0.01820	-0.01894	0.70532	-0.620	0.5353
RQ58A	-0.02230	-0.02239	0.69436	-0.733	0.4636
RQ58B	0.01460	0.01496	0.70186	0.490	0.6244
RQ58C	0.02119	0.02141	0.69582	0.701	0.4833
RR48B	-0.02777	-0.02867	0.70403	-0.939	0.3479
RR48C	-0.05458	-0.05681	0.70375	-1.863	0.0627
RR48D	-0.01765	-0.01691	0.70576	-0.554	0.5799
RR49B	-0.02006	-0.02034	0.70493	-0.666	0.5055
RR49C	0.03471	0.03480	0.67384	1.140	0.2546
RR49E	0.01651	0.01589	0.70627	0.520	0.6030
RR50B	-0.06814	-0.04285	0.29046	-1.404	0.1606
RR51B	-0.00488	-0.00505	0.70607	-0.165	0.8687
RR51C	0.01526	0.01583	0.70310	0.518	0.6043
RR51D	0.03723	0.03868	0.70625	1.268	0.2052
RR51E	-0.01978	-0.02051	0.70538	-0.672	0.5019
RR51F	0.01240	0.01284	0.70601	0.421	0.6742
RR52B	-0.00415	-0.00431	0.70627	-0.141	0.8878
RR52C	0.00775	0.00805	0.70611	0.263	0.7923
RR52D	-0.00999	-0.01041	0.70503	-0.341	0.7332
RR52E	-0.00286	-0.00296	0.70418	-0.097	0.9228
RR52F	0.03721	0.03765	0.68502	1.234	0.2177
RR54C	0.01776	0.01486	0.63906	0.487	0.6265
RR54D	0.00517	0.00516	0.70519	0.169	0.8658
RR54E	-0.00471	-0.00476	0.69748	-0.156	0.8762
RR54F	0.01775	0.01838	0.70157	0.602	0.5474
RR54G	0.04286	0.04453	0.70553	1.459	0.1448
RR54H	-0.01922	-0.01986	0.70554	-0.651	0.5155
RR56A	-0.02935	-0.03039	0.70628	-0.995	0.3197
RR56C	-0.01286	-0.01223	0.69359	-0.400	0.6890
RR56D	0.01574	0.01495	0.69452	0.490	0.6246
RR57B	-0.02933	-0.03053	0.70629	-1.000	0.3175
RR57C	-0.02535	-0.02607	0.70465	-0.854	0.3934
RR57D	-0.02772	-0.02862	0.70380	-0.938	0.3487
RR57E	0.01441	0.01496	0.70409	0.490	0.6243

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

----VARI					
RR57F	-0.02551	-0.02645	0.70571	-0.866	0.3865
RR57G	0.01143	0.01181	0.70250	0.387	0.6991
RR57I	0.01627	0.01687	0.70609	0.553	0.5807
RR57J	0.02879	0.02985	0.70554	0.978	0.3284
RR59C	0.03172	0.03120	0.70628	1.022	0.3069
RR59D	-0.02168	-0.02211	0.70625	-0.724	0.4691
RR59E	0.00824	0.00835	0.70629	0.273	0.7846
RR59F	0.04127	0.04219	0.69620	1.383	0.1671
RR59G	0.01227	0.01252	0.69687	0.410	0.6820
RR59H	-0.01806	-0.01818	0.70569	-0.595	0.5517

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

VARIABLE LIST NUMBER 1. PAIRWISE DELETION OF MISSING DATA.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

	MEAN	CASES	LABEL
RQ5	2.415	1221	IN THIS SEARCH I FOUND
RQ6	1.740	1221	IN REL TO WHAT I WAS LOOKING FOR SEARCH
RQ7	1.481	1219	CAME ACROSS OTHER THINGS OF INTEREST
RQ9	1.398	1224	GENERAL ATTITUDE TOWARD COMPUTER CAT IS
RQ10	1.241	1152	COMPUTER CAT COMPARED TO OTHER CAT
RQ53A	0.177	1210	FROM A FRIEND
RQ53B	0.687	1210	BY PRINTED INSTR
RQ53C	0.202	1210	BY INSTR ON TERMINAL
RQ53D	0.304	1210	FROM LIBRARY STAFF
RQ53E	0.171	1210	FROM LIBRARY COURSE
RQ53F	99.000	1210	AUDIO-VISUAL PROG
RQ53G	0.175	1210	BY MYSELF
RQ55	0.628	1197	MALE
RQ58A	0.761	1163	COURSE WORK
RQ58B	0.115	1163	TEACHING
RQ58C	0.362	1163	RESEARCH
RR48B	0.455	1210	LIBUSE WEEKLY
RR48C	0.148	1210	LIBUSE MONTHLY
RR48D	0.102	1210	LIBUSE INFREQ
RR49B	0.402	1215	OLCUSE MOSTLY
RR49C	0.280	1215	OLCUSE OCCAS
RR49D	0.064	1215	OLCUSE RARE
RR49E	0.044	1215	OLCUSE NEW
RR50B	0.136	1210	CATUSE MOSTLY
RR50C	0.318	1210	CATUSE OCCAS
RR50D	0.331	1210	CATUSE RARE
RR50E	0.150	1210	CATUSE NEVER
RR51B	0.186	1203	CPTRUSE WEEKLY
RR51C	0.149	1203	CPTRUSE MONTHLY
RR51D	0.112	1203	CPTRUSE QRTLY
RR51E	0.096	1203	CPTRUSE ANNUAL
RR51F	0.328	1203	CPTRUSE NEVER
RR52B	0.242	1196	DISCOV LIBRARY TOUR
RR52C	0.023	1196	DISCOV ARTICLE-ANNOUNCE
RR52D	0.101	1196	DISCOV INSTRUCTOR
RR52E	0.083	1196	DISCOV FRIEND - FAMILY
RR52F	0.062	1196	DISCOV LIBRARY STAFF
RR54A	0.004	1214	14 AND UNDER
RR54C	0.477	1214	20 - 24 YEARS
RR54D	0.280	1214	25 - 34 YEARS
RR54E	0.063	1214	35 - 44 YEARS
RR54F	0.024	1214	45 - 54 YEARS
RR54G	0.004	1214	55 - 64 YEARS
RR54H	0.002	1214	65 AND OVER
RR56A	0.002	1205	GRADE SCHOOL
RR56C	0.538	1205	SOME COLLEGE

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

	MEAN	CASES	LABEL
RR56D	0.438	1205	COLLEGE GRADUATE
RR57B	0.127	1172	PHYS-BIO SCIENCES
RR57C	0.131	1172	SOCIAL SCIENCES
RR57D	0.126	1172	BUSINESS-MANAGEMENT
RR57E	0.062	1172	EDUCATION
RR57F	0.160	1172	ENGINEERING
RR57G	0.101	1172	MEDICAL-HEALTH SCIEN
RR57H	0.009	1172	LAW
RR57I	0.025	1172	MAJOR UNDECLARED
RR57J	0.025	1172	INTERDISCIPLINARY
RR59B	0.393	1126	JUNIOR-SENIOR
RR59C	0.155	1126	GRAD MASTER
RR59D	0.107	1126	DOCTORAL
RR59E	0.025	1126	GRAD PROF
RR59F	0.034	1126	FACULTY
RR59G	0.028	1126	STAFF
RR59H	0.050	1126	OTHER USER

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 1.

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54H

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1340	0.0180	0.0171	20.110	0.000	0.0180	20.110	0.000	IN:	RR57G	-0.1340	-0.1340	MEDICAL-HEALTH SCIEN
2	0.1831	0.0335	0.0318	19.059	0.000	0.0156	17.703	0.000	IN:	RR51F	0.1248	0.1292	CPTRUSE NEVER
3	0.2188	0.0479	0.0453	18.403	0.000	0.0144	16.550	0.000	IN:	RR49D	0.1201	0.1156	OLCUSE RARE
4	0.2405	0.0579	0.0544	16.841	0.000	0.0100	11.620	0.001	IN:	RQ58B	-0.1004	-0.1177	TEACHING
5	0.2569	0.0660	0.0617	15.489	0.000	0.0081	9.556	0.002	IN:	RQ53B	0.0923	0.1213	BY PRINTED INSTR
6	0.2702	0.0730	0.0679	14.374	0.000	0.0070	8.288	0.004	IN:	RR52C	-0.0839	-0.0915	DISCOV ARTICLE-ANNOUNCE
7	0.2788	0.0778	0.0718	13.176	0.000	0.0047	5.620	0.018	IN:	RQ53G	0.0695	0.0508	BY MYSELF
8	0.2860	0.0818	0.0750	12.166	0.000	0.0040	4.783	0.029	IN:	RR57B	-0.0640	-0.0489	PHYS-BIO SCIENCES
9	0.2924	0.0855	0.0779	11.341	0.000	0.0037	4.433	0.035	IN:	RR52B	-0.0620	-0.0493	DISCOV LIBRARY TOUR

VARIABLE(S) ENTERED ON STEP NUMBER 9.. RR52B DISCOV LIBRARY TOUR

MULTIPLE R	0.29237		
R SQUARE	0.08548	R SQUARE CHANGE	0.00371
ADJUSTED R SQUARE	0.07794	F CHANGE	4.43286
STANDARD ERROR	0.89610	SIGNIF F CHANGE	0.0355

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	9	81.96276	9.10697
RESIDUAL	1092	876.87888	0.80300

F = 11.34115 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH 1 FOUND

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR57G	-0.36229	0.09264	-0.11687	-3.911	0.0001
RR51F	0.24049	0.05776	0.12107	4.163	0.0000
RR49D	0.43175	0.11084	0.11344	3.895	0.0001
RQ58B	-0.30691	0.08566	-0.10505	-3.583	0.0004
RQ53B	0.18224	0.06031	0.09061	3.022	0.0026
RR52C	-0.55029	0.18282	-0.08763	-3.010	0.0027
RQ53G	0.16340	0.07185	0.06659	2.274	0.0232
RR57B	-0.18632	0.08187	-0.06654	-2.276	0.0231
RR52B	-0.13506	0.06415	-0.06198	-2.105	0.0355
(CONSTANT)	2.29535	0.06436		35.665	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	0.04154	0.04276	0.91886	1.414	0.1578
RQ53C	-0.01017	-0.01029	0.88237	-0.340	0.7341
RQ53D	-0.03850	-0.03956	0.92949	-1.308	0.1913
RQ53E	0.05690	0.05550	0.87020	1.836	0.0666
RQ55	-0.03484	-0.03580	0.92818	-1.183	0.2370
RQ58A	0.02086	0.02072	0.90234	0.684	0.4938
RQ58C	0.01425	0.01421	0.90944	0.469	0.6388
RR48B	0.04460	0.04636	0.92944	1.533	0.1256
RR48C	0.03695	0.03846	0.93066	1.271	0.2038
RR48D	0.04446	0.04588	0.93031	1.517	0.1295
RR49B	0.03379	0.03419	0.92299	1.130	0.2588
RR49C	0.05049	0.05190	0.93090	1.717	0.0863
RR49E	0.04409	0.04547	0.92414	1.503	0.1330
RR50B	0.02881	0.02975	0.92953	0.983	0.3258
RR50C	0.00576	0.00597	0.93119	0.197	0.8436
RR50D	0.02970	0.03057	0.92707	1.010	0.3126
RR50E	-0.01751	-0.01797	0.93089	-0.594	0.5528
RR51B	-0.00832	-0.00816	0.87974	-0.270	0.7875
RR51C	0.02971	0.02957	0.90495	0.977	0.3287
RR51D	0.05200	0.05235	0.92561	1.731	0.0837
RR51E	0.03668	0.03713	0.93020	1.227	0.2200
RR52D	0.00335	0.00337	0.92260	0.111	0.9113
RR52E	-0.03488	-0.03570	0.92872	-1.180	0.2383
RR52F	-0.00934	-0.00938	0.91397	-0.310	0.7568
RR54A	-0.01812	-0.01884	0.93081	-0.623	0.5337
RR54C	-0.02516	-0.02517	0.91549	-0.832	0.4058
RR54D	0.02960	0.03016	0.93114	0.997	0.3191
RR54E	0.01040	0.01066	0.92901	0.352	0.7248
RR54F	-0.00862	-0.00875	0.93025	-0.289	0.7727
RR54G	0.02340	0.02402	0.93131	0.794	0.4276
RR56A	-0.02497	-0.02602	0.93082	-0.860	0.3902
RR56C	0.879D-03	0.00086	0.87210	0.028	0.9774
RR56D	0.00667	0.00652	0.87337	0.215	0.8296
RR57C	-0.01673	-0.01703	0.91955	-0.563	0.5737
RR57D	0.00198	0.00199	0.91754	0.066	0.9476
RR57E	-0.01688	-0.01734	0.92644	-0.573	0.5668
RR57F	0.01740	0.01728	0.90267	0.571	0.5682
RR57H	0.01382	0.01437	0.92742	0.475	0.6350
RR57I	-0.04537	-0.04669	0.92218	-1.544	0.1229
RR57J	0.00815	0.00846	0.93128	0.280	0.7799

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

----VARI					
RR59B	0.04239	0.04266	0.92602	1.410	0.1587
RR59C	-0.00126	-0.00131	0.93116	-0.043	0.9655
RR59D	-0.01906	-0.01964	0.93134	-0.649	0.5165
RR59E	0.01240	0.01267	0.91085	0.418	0.6758
RR59F	-0.03387	-0.03185	0.80087	-1.053	0.2928
RR59G	0.01004	0.01030	0.92868	0.340	0.7337
RR59H	-0.00206	-0.00213	0.93082	-0.070	0.9438

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 2.

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54H

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1425	0.0203	0.0194	22.785	0.000	0.0203	22.785	0.000	IN:	RR49D	0.1425	0.1425	OLCUSE RARE
2	0.1766	0.0312	0.0294	17.689	0.000	0.0109	12.357	0.000	IN:	RR51F	0.1044	0.1092	CPTRUSE NEVER
3	0.2024	0.0410	0.0383	15.632	0.000	0.0098	11.190	0.001	IN:	RR49C	0.1002	0.0735	OLCUSE OCCAS
4	0.2186	0.0478	0.0443	13.761	0.000	0.0068	7.857	0.005	IN:	RR49E	0.0839	0.0674	OLCUSE NEW
5	0.2346	0.0550	0.0507	12.770	0.000	0.0073	8.431	0.004	IN:	RR50B	0.0864	0.0507	CATUSE MOSTLY
6	0.2459	0.0605	0.0553	11.747	0.000	0.0054	6.321	0.012	IN:	RQ53G	0.0737	0.0695	BY MYSELF
7	0.2527	0.0639	0.0579	10.663	0.000	0.0034	3.967	0.047	IN:	RQ53A	0.0592	0.0620	FROM A FRIEND

VARIABLE(S) ENTERED ON STEP NUMBER 7.. RQ53A FROM A FRIEND

MULTIPLE R	0.25272		
R SQUARE	0.06387	R SQUARE CHANGE	0.00339
ADJUSTED R SQUARE	0.05788	F CHANGE	3.96748
STANDARD ERROR	0.86133	SIGNIF F CHANGE	0.0466

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	7	55.37264	7.91038
RESIDUAL	1094	811.61921	0.74188

F = 10.66258 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR49D	0.62086	0.10832	0.17156	5.732	0.0000
RR51F	0.19946	0.05558	0.10560	3.589	0.0003
RR49C	0.23820	0.05964	0.12055	3.994	0.0001
RR49E	0.34589	0.12953	0.08036	2.670	0.0077
RR50B	0.22609	0.07680	0.08725	2.944	0.0033
RQ53G	0.18549	0.06863	0.07949	2.703	0.0070
RQ53A	0.13774	0.06915	0.05925	1.992	0.0466
(CONSTANT)	1.46550	0.04380		33.458	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53B	0.02345	0.02380	0.93930	0.787	0.4313
RQ53C	-0.02084	-0.02132	0.93868	-0.705	0.4810
RQ53D	0.00109	0.00111	0.93888	0.037	0.9706
RQ53E	-0.00206	-0.00210	0.93906	-0.069	0.9447
RQ55	-0.00957	-0.00965	0.92871	-0.319	0.7497
RQ58A	0.01012	0.01031	0.93108	0.341	0.7333
RQ58B	-0.05239	-0.05357	0.93657	-1.774	0.0764
RQ58C	0.02543	0.02555	0.90524	0.845	0.3983
RR48B	0.02802	0.02861	0.93340	0.946	0.3442
RR48C	0.04721	0.04866	0.93930	1.611	0.1075
RR48D	0.02173	0.02006	0.77933	0.663	0.5072
RR49B	0.03551	0.02770	0.56966	0.916	0.3597
RR50C	0.03521	0.03442	0.89452	1.139	0.2552
RR50D	-0.03040	-0.03000	0.90353	-0.992	0.3212
RR50E	0.01147	0.01127	0.89897	0.373	0.7094
RR51B	-0.02492	-0.02414	0.87877	-0.798	0.4248
RR51C	0.03664	0.03597	0.90202	1.190	0.2343
RR51D	0.658D-03	0.00066	0.92613	0.022	0.9826
RR51E	-0.00753	-0.00755	0.93439	-0.250	0.8029
RR52B	-0.04388	-0.04500	0.93811	-1.489	0.1367
RR52C	0.00680	0.00701	0.93922	0.232	0.8167
RR52D	0.00968	0.00986	0.93642	0.326	0.7445
RR52E	-0.02136	-0.02126	0.92683	-0.703	0.4822
RR52F	0.00342	0.00351	0.93868	0.116	0.9077
RR54A	0.01744	0.01795	0.93840	0.594	0.5529
RR54C	0.00958	0.00974	0.92706	0.322	0.7474
RR54D	-0.02108	-0.02142	0.92266	-0.708	0.4789
RR54E	0.03518	0.03615	0.93874	1.196	0.2320
RR54F	-0.03028	-0.03126	0.93859	-1.034	0.3014
RR54G	-0.00853	-0.00880	0.93921	-0.291	0.7711
RR56A	-0.01291	-0.01329	0.93878	-0.440	0.6604
RR56C	0.02047	0.02055	0.91344	0.680	0.4969
RR56D	-0.02084	-0.02089	0.91791	-0.691	0.4899
RR57B	-0.04475	-0.04616	0.93904	-1.528	0.1269
RR57C	-0.01641	-0.01685	0.93685	-0.557	0.5776
RR57D	0.01706	0.01731	0.92119	0.572	0.5672
RR57E	-0.04235	-0.04360	0.93869	-1.443	0.1494
RR57F	0.04595	0.04691	0.93757	1.552	0.1208
RR57G	-0.04199	-0.04316	0.93761	-1.428	0.1535
RR57H	0.03465	0.03572	0.93813	1.182	0.2376

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

----VARI					
RR57I	0.00789	0.00808	0.93899	0.267	0.7893
RR57J	0.01824	0.01879	0.93894	0.621	0.5345
RR59B	0.03558	0.03616	0.92255	1.196	0.2319
RR59C	-0.01498	-0.01535	0.93178	-0.508	0.6118
RR59D	-0.03628	-0.03686	0.92697	-1.219	0.2230
RR59E	0.122D-03	0.00013	0.93928	0.004	0.9967
RR59F	-0.03115	-0.03208	0.93929	-1.061	0.2888
RR59G	0.00740	0.00759	0.93843	0.251	0.8018
RR59H	0.03157	0.03229	0.93266	1.068	0.2857

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 3.

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54H

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.0990	0.0098	0.0089	10.882	0.001	0.0098	10.882	0.001	IN:	RR57G	-0.0990	-0.0990	MEDICAL-HEALTH SCIEN
2	0.1316	0.0173	0.0155	9.691	0.000	0.0075	8.426	0.004	IN:	RR49D	0.0870	0.0804	OLCUSE RARE
3	0.1477	0.0218	0.0191	8.161	0.000	0.0045	5.031	0.025	IN:	RR57F	-0.0677	-0.0485	ENGINEERING
4	0.1595	0.0254	0.0219	7.162	0.000	0.0036	4.094	0.043	IN:	RQ53B	0.0617	0.0712	BY PRINTED INSTR
5	0.1709	0.0292	0.0248	6.591	0.000	0.0037	4.223	0.040	IN:	RR49E	0.0615	0.0463	OLCUSE NEW
6	0.1823	0.0332	0.0279	6.272	0.000	0.0040	4.573	0.033	IN:	RR48B	0.0642	0.0567	LIBUSE WEEKLY

VARIABLE(S) ENTERED ON STEP NUMBER 6.. RR48B LIBUSE WEEKLY

MULTIPLE R	0.18228		
R SQUARE	0.03323	R SQUARE CHANGE	0.00404
ADJUSTED R SQUARE	0.02793	F CHANGE	4.57279
STANDARD ERROR	0.49280	SIGNIF F CHANGE	0.0327

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	6	9.13964	1.52327
RESIDUAL	1095	265.92682	0.24286

F = 6.27235 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR57G	-0.17215	0.05086	-0.10368	-3.385	0.0007
RR49D	0.20270	0.06104	0.09944	3.321	0.0009
RR57F	-0.10064	0.04109	-0.07392	-2.449	0.0145
RQ53B	0.06892	0.03289	0.06398	2.096	0.0364
RR49E	0.16700	0.07291	0.06888	2.290	0.0222
RR48B	0.06443	0.03013	0.06423	2.138	0.0327
(CONSTANT)	1.41709	0.03237		43.778	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.00886	-0.00886	0.94089	-0.293	0.7695
RQ53C	-0.03805	-0.03749	0.89542	-1.241	0.2149
RQ53D	-0.02196	-0.02221	0.93779	-0.735	0.4626
RQ53E	0.05504	0.05518	0.93022	1.828	0.0678
RQ53G	0.03366	0.03393	0.93236	1.123	0.2617
RQ55	-0.01655	-0.01604	0.90746	-0.531	0.5959
RQ58A	-0.00223	-0.00225	0.93956	-0.074	0.9407
RQ58B	-0.01432	-0.01436	0.94003	-0.475	0.6350
RQ58C	-0.00550	-0.00553	0.93422	-0.183	0.8550
RR48C	0.02412	0.02255	0.83123	0.746	0.4558
RR48D	0.00660	0.00577	0.73822	0.191	0.8487
RR49B	-0.00648	-0.00625	0.89768	-0.207	0.8364
RR49C	0.03480	0.03446	0.93904	1.141	0.2543
RR50B	-0.01615	-0.01629	0.94007	-0.539	0.5901
RR50C	0.01978	0.01981	0.93652	0.655	0.5124
RR50D	0.02861	0.02871	0.94018	0.950	0.3424
RR50E	-0.01821	-0.01791	0.92404	-0.592	0.5536
RR51B	-0.02812	-0.02833	0.93981	-0.937	0.3488
RR51C	-0.00398	-0.00402	0.94091	-0.133	0.8942
RR51D	0.02974	0.03016	0.94000	0.998	0.3186
RR51E	0.03758	0.03803	0.93957	1.259	0.2083
RR51F	0.04174	0.04186	0.93839	1.386	0.1661
RR52B	0.03390	0.03422	0.94034	1.132	0.2577
RR52C	-0.00503	-0.00510	0.94072	-0.169	0.8662
RR52D	-0.04246	-0.04263	0.94006	-1.411	0.1584
RR52E	-0.01234	-0.01238	0.94090	-0.409	0.6823
RR52F	-0.00688	-0.00690	0.93135	-0.228	0.8194
RR54A	-0.00412	-0.00416	0.93525	-0.138	0.8905
RR54C	0.02245	0.02249	0.93636	0.744	0.4569
RR54D	0.01583	0.01598	0.93946	0.528	0.5973
RR54E	-0.02227	-0.02254	0.94091	-0.746	0.4560
RR54F	-0.01754	-0.01776	0.93857	-0.587	0.5571
RR54G	0.04770	0.04844	0.94063	1.604	0.1090
RR56A	0.00295	0.00300	0.94090	0.099	0.9210
RR56C	-0.01089	-0.01089	0.94086	-0.360	0.7186
RR56D	0.00695	0.00691	0.94091	0.229	0.8192
RR57B	-0.04659	-0.04614	0.91866	-1.528	0.1269
RR57C	0.03615	0.03554	0.92174	1.176	0.2397
RR57D	-0.01032	-0.01012	0.91852	-0.335	0.7378
RR57E	-0.02347	-0.02357	0.93071	-0.780	0.4357

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

----VARI					
RR57H	-0.03967	-0.04018	0.93859	-1.330	0.1837
RR57I	-0.02078	-0.02091	0.93442	-0.692	0.4891
RR57J	0.02518	0.02545	0.93767	0.842	0.3999
RR59B	-0.01229	-0.01227	0.93302	-0.406	0.6849
RR59C	0.01068	0.01083	0.94050	0.358	0.7204
RR59D	0.01130	0.01137	0.93769	0.376	0.7069
RR59E	-0.01859	-0.01854	0.91342	-0.613	0.5397
RR59F	0.00721	0.00730	0.93974	0.241	0.8093
RR59G	0.01375	0.01390	0.93793	0.460	0.6458
RR59H	-0.01697	-0.01701	0.94008	-0.563	0.5737

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 4.

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54H

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1416	0.0201	0.0192	22.510	0.000	0.0201	22.510	0.000	IN:	RR49D	0.1416	0.1416	OLCUSE RARE
2	0.1890	0.0357	0.0340	20.351	0.000	0.0157	17.848	0.000	IN:	RR48D	0.1261	0.1415	LIBUSE INFREQ
3	0.2172	0.0472	0.0446	18.115	0.000	0.0114	13.191	0.000	IN:	RR48C	0.1082	0.0922	LIBUSE MONTHLY
4	0.2416	0.0584	0.0549	16.996	0.000	0.0112	13.042	0.000	IN:	RR49C	0.1075	0.0724	OLCUSE OCCAS
5	0.2616	0.0685	0.0642	16.109	0.000	0.0101	11.887	0.001	IN:	RR50B	0.1018	0.0698	CATUSE MOSTLY
6	0.2760	0.0762	0.0711	15.044	0.000	0.0077	9.123	0.003	IN:	RR49E	0.0983	0.1113	OLCUSE NEW
7	0.2893	0.0837	0.0779	14.279	0.000	0.0076	9.028	0.003	IN:	RR57F	-0.0873	-0.0806	ENGINEERING
8	0.2976	0.0885	0.0819	13.273	0.000	0.0048	5.792	0.016	IN:	RQ58A	-0.0704	-0.0548	COURSE WORK
9	0.3042	0.0925	0.0850	12.369	0.000	0.0040	4.771	0.029	IN:	RQ53G	0.0631	0.0599	BY MYSELF
10	0.3100	0.0961	0.0878	11.598	0.000	0.0036	4.318	0.038	IN:	RR50D	-0.0629	-0.0787	CATUSE RARE

VARIABLE(S) ENTERED ON STEP NUMBER 10.. RR50D CATUSE RARE

MULTIPLE R	0.30998		
R SQUARE	0.09609	R SQUARE CHANGE	0.00358
ADJUSTED R SQUARE	0.08780	F CHANGE	4.31768
STANDARD ERROR	0.61509	SIGNIF F CHANGE	0.0380

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	10	43.87788	4.38779
RESIDUAL	1091	412.75757	0.37833

F = 11.59779 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR49D	0.46115	0.07905	0.17558	5.834	0.0000
RR48D	0.23711	0.06918	0.11171	3.428	0.0006
RR48C	0.19062	0.05292	0.10513	3.602	0.0003
RR49C	0.20422	0.04281	0.14241	4.770	0.0000
RR50B	0.15310	0.05697	0.08141	2.687	0.0073
RR49E	0.30778	0.10086	0.09853	3.052	0.0023
RR57F	-0.13802	0.05083	-0.07868	-2.715	0.0067
RQ58A	-0.10099	0.04406	-0.06691	-2.292	0.0221
RQ53G	0.10777	0.04881	0.06364	2.208	0.0275
RR50D	-0.08606	0.04142	-0.06293	-2.078	0.0380
(CONSTANT)	1.33282	0.04539		29.364	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	0.04314	0.04440	0.77981	1.467	0.1426
RQ53B	-0.03613	-0.03712	0.78004	-1.226	0.2204
RQ53C	-0.03516	-0.03656	0.77991	-1.208	0.2274
RQ53D	0.00347	0.00360	0.77991	0.119	0.9054
RQ53E	-0.02483	-0.02570	0.77990	-0.849	0.3962
RQ55	-0.05273	-0.05263	0.77938	-1.740	0.0822
RQ58B	-0.00177	-0.00176	0.77990	-0.058	0.9536
RQ58C	0.03110	0.02476	0.57318	0.818	0.4137
RR48B	0.01222	0.01089	0.67581	0.359	0.7193
RR49B	0.00578	0.00456	0.56347	0.151	0.8804
RR50C	-0.02039	-0.01596	0.55392	-0.527	0.5983
RR50E	-0.04232	-0.03924	0.77089	-1.297	0.1951
RR51B	-0.03375	-0.03496	0.77876	-1.155	0.2483
RR51C	-0.00428	-0.00446	0.77994	-0.147	0.8830
RR51D	0.02246	0.02355	0.77912	0.778	0.4368
RR51E	-0.00894	-0.00932	0.77900	-0.308	0.7583
RR51F	0.02855	0.02954	0.78002	0.976	0.3294
RR52B	-0.01845	-0.01919	0.78004	-0.634	0.5264
RR52C	0.01400	0.01460	0.77555	0.482	0.6299
RR52D	-0.02816	-0.02925	0.77995	-0.966	0.3342
RR52E	0.01390	0.01437	0.77992	0.474	0.6354
RR52F	0.03845	0.04002	0.78000	1.322	0.1863
RR54A	0.01627	0.01703	0.77831	0.562	0.5740
RR54C	-0.05129	-0.05120	0.77898	-1.693	0.0908
RR54D	0.02280	0.02293	0.77651	0.757	0.4491
RR54E	0.04009	0.04072	0.77993	1.345	0.1788
RR54F	-0.01585	-0.01634	0.77636	-0.540	0.5896
RR54G	0.02306	0.02396	0.77921	0.791	0.4289
RR56A	0.01638	0.01717	0.77994	0.567	0.5708
RR56C	0.00964	0.00881	0.75487	0.291	0.7712
RR56D	-0.00576	-0.00520	0.73770	-0.172	0.8637
RR57B	-0.03747	-0.03874	0.77946	-1.280	0.2008
RR57C	-0.02202	-0.02265	0.77905	-0.748	0.4546
RR57D	-0.04884	-0.04922	0.78004	-1.627	0.1040
RR57E	-0.03934	-0.04078	0.77649	-1.347	0.1781
RR57G	-0.02729	-0.02821	0.78004	-0.932	0.3517
RR57H	0.00987	0.01034	0.77959	0.341	0.7330
RR57I	0.03441	0.03589	0.77962	1.186	0.2360
RR57J	0.00636	0.00663	0.78000	0.219	0.8269
RR59B	0.01756	0.01747	0.77787	0.577	0.5641

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

----VARI					
RR59C	-0.00779	-0.00808	0.77944	-0.267	0.7896
RR59D	0.03029	0.02974	0.76995	0.982	0.3261
RR59E	-0.03468	-0.03624	0.77911	-1.197	0.2314
RR59F	-0.01453	-0.01445	0.78000	-0.477	0.6334
RR59G	-0.05664	-0.05782	0.77976	-1.912	0.0561
RR59H	-0.01746	-0.01733	0.76061	-0.572	0.5674

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 5.

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

THE FOLLOWING 2 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54H

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1433	0.0205	0.0196	22.164	0.000	0.0205	22.164	0.000	IN:	RR50D	-0.1433	-0.1433	CATUSE RARE
2	0.1936	0.0375	0.0356	20.554	0.000	0.0169	18.575	0.000	IN:	RQ58A	-0.1305	-0.1404	COURSE WORK
3	0.2182	0.0476	0.0449	17.576	0.000	0.0101	11.222	0.001	IN:	RR50B	0.1048	0.1379	CATUSE MOSTLY
4	0.2391	0.0572	0.0536	15.973	0.000	0.0096	10.680	0.001	IN:	RR49D	0.0988	0.0657	OLCUSE RARE
5	0.2556	0.0653	0.0609	14.715	0.000	0.0082	9.188	0.002	IN:	RR52C	0.0906	0.0960	DISCOV ARTICLE-ANNOUNCE
6	0.2673	0.0715	0.0662	13.496	0.000	0.0062	6.982	0.008	IN:	RR49B	-0.0811	-0.0724	OLCUSE MOSTLY
7	0.2798	0.0783	0.0721	12.749	0.000	0.0068	7.748	0.005	IN:	RR50E	-0.0907	-0.0583	CATUSE NEVER
8	0.2959	0.0876	0.0806	12.597	0.000	0.0093	10.710	0.001	IN:	RR50C	-0.1963	0.0144	CATUSE OCCAS
9	0.2957	0.0874	0.0814	14.388	0.000	-0.0001	0.143	0.705	OUT:	RR50B		0.1379	CATUSE MOSTLY
10	0.3055	0.0934	0.0864	13.515	0.000	0.0059	6.841	0.009	IN:	RR48D	0.0798	0.0864	LIBUSE INFREQ
11	0.3148	0.0991	0.0914	12.825	0.000	0.0058	6.719	0.010	IN:	RR49C	0.0979	0.0352	OLCUSE OCCAS
12	0.3148	0.0991	0.0922	14.439	0.000	-0.0000	0.022	0.883	OUT:	RR49B		-0.0724	OLCUSE MOSTLY
13	0.3236	0.1047	0.0971	13.635	0.000	0.0056	6.590	0.010	IN:	RR48C	0.0760	0.0620	LIBUSE MONTHLY
14	0.3300	0.1089	0.1004	12.807	0.000	0.0042	4.902	0.027	IN:	RR59E	-0.0647	-0.0499	GRAD PROF
15	0.3364	0.1132	0.1039	12.149	0.000	0.0043	5.066	0.025	IN:	RR57F	-0.0663	-0.0869	ENGINEERING

VARIABLE(S) ENTERED ON STEP NUMBER 15.. RR57F ENGINEERING

MULTIPLE R	0.33644		
R SQUARE	0.11319	R SQUARE CHANGE	0.00429
ADJUSTED R SQUARE	0.10387	F CHANGE	5.06573
STANDARD ERROR	0.49200	SIGNIF F CHANGE	0.0246

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	11	32.34884	2.94080
RESIDUAL	1047	253.44279	0.24207

F = 12.14878 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR50D	-0.33873	0.04399	-0.30691	-7.700	0.0000
RQ58A	-0.15477	0.03613	-0.12706	-4.284	0.0000
RR49D	0.23928	0.06413	0.11289	3.731	0.0002
RR52C	0.26315	0.10247	0.07524	2.568	0.0104
RR50E	-0.32506	0.05330	-0.22316	-6.098	0.0000
RR50C	-0.22874	0.04375	-0.20507	-5.229	0.0000
RR48D	0.18137	0.05206	0.10588	3.484	0.0005
RR49C	0.12158	0.03491	0.10506	3.483	0.0005
RR48C	0.10901	0.04319	0.07449	2.524	0.0118
RR59E	-0.23060	0.09760	-0.06912	-2.363	0.0183
RR57F	-0.09379	0.04167	-0.06625	-2.251	0.0246
(CONSTANT)	1.52350	0.04322		35.252	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.322D-03	-0.00034	0.53308	-0.011	0.9913
RQ53B	-0.02952	-0.03077	0.52618	-0.996	0.3196
RQ53C	-0.04629	-0.04866	0.53205	-1.576	0.1154
RQ53D	-0.01916	-0.02022	0.53252	-0.654	0.5133
RQ53E	-0.01434	-0.01506	0.53250	-0.487	0.6262
RQ53G	0.05338	0.05652	0.53304	1.831	0.0674
RQ55	-0.04694	-0.04785	0.53226	-1.549	0.1216
RQ58B	0.04195	0.04209	0.52657	1.362	0.1733
RQ58C	0.04507	0.03626	0.53249	1.173	0.2409
RR48B	0.01612	0.01446	0.53118	0.468	0.6402
RR49B	-0.00351	-0.00288	0.52818	-0.093	0.9258
RR49E	0.06435	0.05982	0.53307	1.938	0.0529
RR50B	-0.05415	-0.03499	0.23613	-1.132	0.2577
RR51B	-0.04402	-0.04607	0.53063	-1.491	0.1361
RR51C	0.04829	0.05049	0.53285	1.635	0.1023
RR51D	-0.01669	-0.01756	0.53308	-0.568	0.5703
RR51E	0.00987	0.01036	0.53128	0.335	0.7376
RR51F	0.01168	0.01209	0.52901	0.391	0.6958
RR52B	0.03320	0.03479	0.53289	1.126	0.2605
RR52D	-0.04982	-0.05208	0.53260	-1.687	0.0920
RR52E	0.02397	0.02523	0.53279	0.816	0.4146
RR52F	0.01378	0.01439	0.53308	0.466	0.6416
RR54A	0.03873	0.04092	0.53251	1.325	0.1856
RR54C	-0.03220	-0.03237	0.52648	-1.047	0.2952
RR54D	-0.02563	-0.02587	0.52905	-0.837	0.4027
RR54E	0.05310	0.05440	0.53239	1.762	0.0784
RR54F	-0.140D-03	-0.00015	0.53270	-0.005	0.9962
RR54G	0.04046	0.04183	0.52936	1.354	0.1760
RR56A	-0.01883	-0.01995	0.53302	-0.645	0.5189
RR56C	-0.00494	-0.00451	0.53121	-0.146	0.8841
RR56D	0.01222	0.01101	0.53188	0.356	0.7218
RR57B	-0.04318	-0.04493	0.53267	-1.455	0.1460
RR57C	-0.03265	-0.03384	0.52991	-1.095	0.2737
RR57D	-0.03382	-0.03440	0.53214	-1.113	0.2659
RR57E	-0.03628	-0.03802	0.53289	-1.231	0.2188
RR57G	-0.03296	-0.03360	0.52450	-1.087	0.2771
RR57H	0.01650	0.01689	0.53143	0.546	0.5850
RR57I	0.05483	0.05773	0.53274	1.870	0.0617
RR57J	0.01409	0.01483	0.53306	0.480	0.6315
RR59B	-0.01842	-0.01837	0.53291	-0.594	0.5524

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

----VAR!					
RR59C	-0.04055	-0.04248	0.53286	-1.375	0.1694
RR59D	0.03496	0.03455	0.52857	1.118	0.2637
RR59F	0.02300	0.02304	0.53088	0.745	0.4563
RR59G	-0.00510	-0.00526	0.53305	-0.170	0.8650
RR59H	0.02079	0.02078	0.53255	0.672	0.5016

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

VARIABLE LIST NUMBER 1. PAIRWISE DELETION OF MISSING DATA.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

	MEAN	CASES	LABEL
RQ5	2.502	605	IN THIS SEARCH I FOUND
RQ6	1.647	612	IN REL TO WHAT I WAS LOOKING FOR SEARCH
RQ7	1.622	609	CAME ACROSS OTHER THINGS OF INTEREST
RQ9	1.330	610	GENERAL ATTITUDE TOWARD COMPUTER CAT IS
RQ10	1.267	577	COMPUTER CAT COMPARED TO OTHER CAT
RQ53A	0.141	604	FROM A FRIEND
RQ53B	0.247	604	BY PRINTED INSTR
RQ53C	0.606	604	BY INSTR ON TERMINAL
RQ53D	0.184	604	FROM LIBRARY STAFF
RQ53E	0.036	604	FROM LIBRARY COURSE
RQ53F	0.0	604	AUDIO-VISUAL PROG
RQ53G	0.228	604	BY MYSELF
RQ55	0.611	604	MALE
RQ58A	0.713	588	COURSE WORK
RQ58B	0.102	588	TEACHING
RQ58C	0.396	588	RESEARCH
RR48B	0.436	605	LIBUSE WEEKLY
RR48C	0.112	605	LIBUSE MONTHLY
RR48D	0.063	605	LIBUSE INFREQ
RR49B	0.441	606	OLCUSE MOSTLY
RR49C	0.347	606	OLCUSE OCCAS
RR49D	0.041	606	OLCUSE RARE
RR49E	0.038	606	OLCUSE NEW
RR50B	0.151	604	CATUSE MOSTLY
RR50C	0.442	604	CATUSE OCCAS
RR50D	0.276	604	CATUSE RARE
RR50E	0.071	604	CATUSE NEVER
RR51B	0.186	602	CPTRUSE WEEKLY
RR51C	0.159	602	CPTRUSE MONTHLY
RR51D	0.136	602	CPTRUSE QRTLY
RR51E	0.116	602	CPTRUSE ANNUAL
RR51F	0.334	602	CPTRUSE NEVER
RR52B	0.159	603	DISCOV LIBRARY TOUR
RR52C	0.020	603	DISCOV ARTICLE-ANNOUNCE
RR52D	0.013	603	DISCOV INSTRUCTOR
RR52E	0.048	603	DISCOV FRIEND - FAMILY
RR52F	0.028	603	DISCOV LIBRARY STAFF
RR54A	0.002	604	14 AND UNDER
RR54C	0.399	604	20 - 24 YEARS
RR54D	0.310	604	25 - 34 YEARS
RR54E	0.060	604	35 - 44 YEARS
RR54F	0.013	604	45 - 54 YEARS
RR54G	0.012	604	55 - 64 YEARS
RR54H	0.0	604	65 AND OVER
RR56A	0.002	605	GRADE SCHOOL
RR56C	0.489	605	SOME COLLEGE

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

	MEAN	CASES	LABEL
RR56D	0.496	605	COLLEGE GRADUATE
RR57B	0.085	598	PHYS-BIO SCIENCES
RR57C	0.239	598	SOCIAL SCIENCES
RR57D	0.119	598	BUSINESS-MANAGEMENT
RR57E	0.030	598	EDUCATION
RR57F	0.129	598	ENGINEERING
RR57G	0.032	598	MEDICAL-HEALTH SCIEN
RR57H	0.015	598	LAW
RR57I	0.012	598	MAJOR UNDECLARED
RR57J	0.037	598	INTERDISCIPLINARY
RR59B	0.284	585	JUNIOR-SENIOR
RR59C	0.120	585	GRAD MASTER
RR59D	0.188	585	DOCTORAL
RR59E	0.038	585	GRAD PROF
RR59F	0.051	585	FACULTY
RR59G	0.012	585	STAFF
RR59H	0.077	585	OTHER USER

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 1.

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

THE FOLLOWING 4 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A RR54H RR56A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1361	0.0185	0.0168	10.809	0.001	0.0185	10.809	0.001	IN:	RR49D	0.1361	0.1361	OLCUSE RA
2	0.1787	0.0319	0.0285	9.434	0.000	0.0134	7.930	0.005	IN:	RR49E	0.1159	0.1101	OLCUSE NE
3	0.2100	0.0441	0.0391	8.783	0.000	0.0122	7.273	0.007	IN:	RR57F	0.1104	0.1144	ENGINEERI
4	0.2264	0.0512	0.0446	7.696	0.000	0.0071	4.283	0.039	IN:	RR59D	0.0848	0.0788	DOCTORAL
5	0.2419	0.0585	0.0502	7.071	0.000	0.0073	4.388	0.037	IN:	RR49B	-0.0899	-0.1120	OLCUSE MO

VARIABLE(S) ENTERED ON STEP NUMBER 5.. RR49B OLCUSE MOSTLY

MULTIPLE R	0.24187		
R SQUARE	0.05850	R SQUARE CHANGE	0.00726
ADJUSTED R SQUARE	0.05023	F CHANGE	4.38838
STANDARD ERROR	0.80806	SIGNIF F CHANGE	0.0366

ANALYSIS OF VARIANCE

	DF	SUM OF SQUAR
REGRESSION	5	23.085
RESIDUAL	569	371.536

F = 7.07093 SIGNIF F = 0.000

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Best Available Copy

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR49D	0.52160	0.17293	0.12521	3.016	0.0027
RR49E	0.45391	0.17978	0.10469	2.525	0.0118
RR57F	0.25626	0.10085	0.10360	2.541	0.0113
RR59D	0.21546	0.08830	0.10162	2.440	0.0150
RR49B	-0.15009	0.07165	-0.08994	-2.095	0.0366
(CONSTANT)	2.45635	0.05128		47.901	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.01188	-0.01220	0.89648	-0.291	0.7712
RQ53B	-0.02237	-0.02301	0.89574	-0.549	0.5835
RQ53C	-0.00224	-0.00231	0.89753	-0.055	0.9561
RQ53D	-0.04909	-0.04970	0.87306	-1.186	0.2362
RQ53E	-0.04532	-0.04660	0.89687	-1.112	0.2667
RQ53G	-0.00957	-0.00972	0.88972	-0.232	0.8168
RQ55	-0.01525	-0.01540	0.89046	-0.367	0.7137
RQ58A	0.00301	0.00291	0.85332	0.069	0.9447
RQ58B	-0.01044	-0.01051	0.89761	-0.251	0.8022
RQ58C	0.00972	0.00902	0.79755	0.215	0.8299
RR48B	0.00361	0.00369	0.89746	0.088	0.9299
RR48C	-0.00741	-0.00750	0.88730	-0.179	0.8582
RR48D	0.07235	0.06172	0.66860	1.474	0.1411
RR49C	-0.03885	-0.02603	0.40892	-0.620	0.5352
RR50B	0.05141	0.05022	0.86708	1.198	0.2313
RR50C	-0.00385	-0.00388	0.88408	-0.093	0.9263
RR50D	-0.01798	-0.01813	0.89642	-0.432	0.6658
RR50E	-0.02707	-0.02667	0.89131	-0.636	0.5251
RR51B	-0.02815	-0.02859	0.89633	-0.682	0.4958
RR51C	-0.04637	-0.04763	0.89764	-1.136	0.2563
RR51D	0.02253	0.02303	0.89603	0.549	0.5833
RR51E	0.00802	0.00821	0.89552	0.196	0.8448
RR51F	0.02573	0.02612	0.89373	0.623	0.5337
RR52B	-0.01635	-0.01667	0.88996	-0.397	0.6913
RR52C	-0.02130	-0.02182	0.89478	-0.520	0.6032
RR52D	-0.00340	-0.00349	0.89559	-0.083	0.9338
RR52E	-0.07290	-0.07403	0.89399	-1.769	0.0774
RR52F	0.05779	0.05949	0.89678	1.420	0.1561
RR54C	0.05121	0.05161	0.89745	1.232	0.2186
RR54D	-0.02946	-0.02759	0.79868	-0.658	0.5109
RR54E	-0.03982	-0.04085	0.89662	-0.974	0.3303
RR54F	-0.02897	-0.02975	0.89764	-0.709	0.4785
RR54G	0.05454	0.05595	0.89576	1.335	0.1823
RR56C	0.01369	0.01236	0.75771	0.295	0.7684
RR56D	-0.00838	-0.00754	0.75270	-0.180	0.8575
RR57B	0.02933	0.02967	0.88592	0.707	0.4796
RR57C	-0.01052	-0.01056	0.89761	-0.252	0.8014
RR57D	0.01501	0.01518	0.89539	0.362	0.7176
RR57E	-0.04772	-0.04890	0.89744	-1.167	0.2438
RR57G	-0.02682	-0.02714	0.89208	-0.647	0.5178

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ5 IN THIS SEARCH I FOUND

----VARI					
RR57H	0.06439	0.06600	0.89432	1.576	0.1155
RR57I	0.02423	0.02490	0.89764	0.594	0.5529
RR57J	0.03743	0.03838	0.89689	0.915	0.3603
RR59B	0.02086	0.02044	0.87060	0.487	0.6263
RR59C	-0.05959	-0.05991	0.89186	-1.430	0.1531
RR59E	0.01877	0.01910	0.89154	0.455	0.6490
RR59F	-0.00510	-0.00521	0.89621	-0.124	0.9011
RR59G	-0.01828	-0.01872	0.89636	-0.446	0.6557
RR59H	0.00827	0.00813	0.89459	0.194	0.8464

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

****** MULTIPLE REGRESSION ******

EQUATION NUMBER 2.

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

THE FOLLOWING 4 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A RR54H RR56A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1066	0.0114	0.0097	6.645	0.010	0.0114	6.645	0.010	IN:	RR49D	0.1066	0.1066	OLCUSE RARE
2	0.1513	0.0229	0.0195	6.756	0.001	0.0115	6.799	0.009	IN:	RR50B	0.1073	0.1054	CATUSE MOSTLY
3	0.1799	0.0324	0.0273	6.421	0.000	0.0095	5.643	0.018	IN:	RQ53D	-0.0982	-0.0816	FROM LIBRARY STAFF

VARIABLE(S) ENTERED ON STEP NUMBER 3.. RQ53D FROM LIBRARY STAFF

MULTIPLE R	0.17989		
R SQUARE	0.03236	R SQUARE CHANGE	0.00948
ADJUSTED R SQUARE	0.02732	F CHANGE	5.64309
STANDARD ERROR	0.84805	SIGNIF F CHANGE	0.0179

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	3	13.85364	4.61788
RESIDUAL	576	414.25072	0.71919

F = 6.42099 SIGNIF F = 0.0003

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

VARIABLES IN THE EQUATION

VARIABLE	B	SE B	BETA	T	SIG T
RR49D	0.47351	0.17711	0.10961	2.674	0.0077
RR50B	0.28848	0.09930	0.12011	2.905	0.0038
RQ53D	-0.21785	0.09171	-0.09821	-2.376	0.0179
(CONSTANT)	1.62410	0.04168		38.968	0.0000

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	0.00545	0.00552	0.97744	0.132	0.8948
RQ53B	-0.02651	-0.02692	0.98188	-0.646	0.5186
RQ53C	-0.00863	-0.00873	0.97465	-0.209	0.8343
RQ53E	-0.05627	-0.05713	0.98243	-1.372	0.1705
RQ53G	0.02053	0.02054	0.95297	0.493	0.6224
RQ55	-0.00716	-0.00726	0.98043	-0.174	0.8618
RQ58A	0.00406	0.00404	0.94612	0.097	0.9229
RQ58B	-0.02872	-0.02906	0.97860	-0.697	0.4860
RQ58C	-0.01298	-0.01278	0.93607	-0.306	0.7594
RR48B	-0.03280	-0.03328	0.98037	-0.798	0.4249
RR48C	-0.02494	-0.02524	0.98143	-0.605	0.5452
RR48D	0.03343	0.03390	0.98033	0.813	0.4163
RR49B	-0.07679	-0.07380	0.89360	-1.774	0.0765
RR49C	0.07118	0.06965	0.92661	1.674	0.0946
RR49E	0.02340	0.02369	0.97568	0.568	0.5702
RR50C	0.05300	0.04927	0.83464	1.183	0.2373
RR50D	-0.05198	-0.05030	0.90619	-1.208	0.2277
RR50E	-0.00651	-0.00656	0.97144	-0.157	0.8751
RR51B	0.03673	0.03727	0.98119	0.894	0.3715
RR51C	-0.06722	-0.06819	0.98074	-1.639	0.1018
RR51D	0.03641	0.03685	0.97460	0.884	0.3770
RR51E	0.02114	0.02145	0.98030	0.514	0.6071
RR51F	-0.03259	-0.03300	0.97958	-0.792	0.4288
RR52B	-0.04381	-0.04385	0.95343	-1.053	0.2930
RR52C	-0.04321	-0.04362	0.97707	-1.047	0.2955
RR52D	0.02145	0.02171	0.97892	0.521	0.6028
RR52E	-0.04446	-0.04511	0.98039	-1.083	0.2794
RR52F	0.07758	0.07667	0.93358	1.844	0.0657
RR54C	0.04715	0.04717	0.96845	1.132	0.2579
RR54D	-0.03809	-0.03812	0.96630	-0.915	0.3607
RR54E	-0.02863	-0.02896	0.97813	-0.695	0.4875
RR54F	0.01417	0.01434	0.97842	0.344	0.7310
RR54G	0.02209	0.02223	0.97354	0.533	0.5941
RR56C	0.04589	0.04484	0.92361	1.076	0.2823
RR56D	-0.05098	-0.04967	0.91861	-1.192	0.2336
RR57B	0.04870	0.04916	0.97411	1.180	0.2384
RR57C	-0.04128	-0.04181	0.98206	-1.003	0.3161
RR57D	0.01124	0.01131	0.96561	0.271	0.7863
RR57E	-0.03412	-0.03461	0.98084	-0.830	0.4067
RR57F	0.06882	0.06978	0.97825	1.677	0.0940

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

----VARI					
RR57G	-0.06728	-0.06756	0.97555	-1.624	0.1050
RR57H	0.07382	0.07501	0.98248	1.804	0.0718
RR57I	-0.00191	-0.00194	0.98072	-0.047	0.9628
RR57J	0.00207	0.00211	0.98241	0.051	0.9597
RR59B	0.01552	0.01545	0.95878	0.371	0.7111
RR59C	-0.02086	-0.02087	0.95492	-0.501	0.6168
RR59D	-0.01438	-0.01412	0.92081	-0.339	0.7350
RR59E	-0.01379	-0.01395	0.97737	-0.335	0.7381
RR59F	-0.00539	-0.00541	0.96575	-0.130	0.8968
RR59G	-0.01430	-0.01451	0.98273	-0.348	0.7279
RR59H	-0.03943	-0.04002	0.98042	-0.960	0.3372

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 3.

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

THE FOLLOWING 4 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A RR54H RR56A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.0879	0.0077	0.0060	4.490	0.035	0.0077	4.490	0.035	IN:	RQ55	-0.0879	-0.0879	MALE
2	0.1233	0.0152	0.0118	4.445	0.012	0.0075	4.373	0.037	IN:	RQ58C	0.0873	0.0738	RESEARCH

VARIABLE(S) ENTERED ON STEP NUMBER 2.. RQ58C RESEARCH

MULTIPLE R	0.12328		
R SQUARE	0.01520	R SQUARE CHANGE	0.00748
ADJUSTED R SQUARE	0.01178	F CHANGE	4.37270
STANDARD ERROR	0.48234	SIGNIF F CHANGE	0.0370

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	2	2.06802	1.03401
RESIDUAL	576	134.00563	0.23265

F = 4.44451 SIGNIF F = 0.0121

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RQ55	-0.09907	0.04149	-0.09963	-2.388	0.0173
RQ58C	0.08649	0.04136	0.08726	2.091	0.0370
(CONSTANT)	1.64859	0.03466		47.569	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.06788	-0.06803	0.97386	-1.635	0.1026
RQ53B	-0.06639	-0.06671	0.97876	-1.603	0.1095
RQ53C	-0.00299	-0.00299	0.96965	-0.072	0.9428
RQ53D	-0.03984	-0.03979	0.96565	-0.955	0.3400
RQ53E	-0.01465	-0.01476	0.98120	-0.354	0.7235
RQ53G	-0.04466	-0.04493	0.97946	-1.079	0.2812
RQ58A	-0.01114	-0.00758	0.45261	-0.182	0.8559
RQ58B	0.01768	0.01711	0.90657	0.410	0.6817
RR48B	-0.01123	-0.01128	0.97890	-0.270	0.7869
RR48C	0.03326	0.03336	0.97639	0.801	0.4238
RR48D	0.00173	0.00174	0.97954	0.042	0.9668
RR49B	0.02959	0.02941	0.96254	0.706	0.4807
RR49C	-0.02053	-0.01996	0.92019	-0.479	0.6323
RR49D	0.01247	0.01255	0.98075	0.301	0.7635
RR49E	-0.02003	-0.02014	0.97822	-0.483	0.6293
RR50B	0.00166	0.00163	0.93114	0.039	0.9688
RR50C	0.00141	0.00142	0.98136	0.034	0.9729
RR50D	-0.03853	-0.03819	0.95189	-0.916	0.3599
RR50E	0.00286	0.00286	0.97121	0.069	0.9453
RR51B	-0.03249	-0.03257	0.97384	-0.781	0.4349
RR51C	-0.02372	-0.02386	0.97772	-0.572	0.5674
RR51D	-0.03448	-0.03459	0.97519	-0.830	0.4070
RR51E	-0.01478	-0.01486	0.97762	-0.356	0.7218
RR51F	0.04741	0.04765	0.97822	1.144	0.2531
RR52B	0.04993	0.04980	0.97078	1.196	0.2323
RR52C	0.00735	0.00739	0.97582	0.177	0.8595
RR52D	0.00159	0.00160	0.98127	0.038	0.9695
RR52E	-0.00644	-0.00648	0.98011	-0.155	0.8766
RR52F	0.02107	0.02119	0.97888	0.508	0.6115
RR54C	0.04987	0.04868	0.92553	1.169	0.2430
RR54D	0.00222	0.00203	0.81870	0.049	0.9611
RR54E	-0.00283	-0.00281	0.95442	-0.067	0.9463
RR54F	-0.06772	-0.06746	0.96318	-1.621	0.1055
RR54G	0.01484	0.01490	0.97419	0.357	0.7210
RR56C	-0.01065	-0.00894	0.68731	-0.214	0.8303
RR56D	0.02562	0.02141	0.68098	0.513	0.6078
RR57B	0.06494	0.06494	0.96712	1.561	0.1192
RR57C	0.00555	0.00559	0.98174	0.134	0.8933
RR57D	0.03833	0.03857	0.97979	0.926	0.3550
RR57E	-0.03841	-0.03846	0.97087	-0.923	0.3564

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ7 CAME ACROSS OTHER THINGS OF INTEREST

----VARI					
RR57F	-0.00795	-0.00789	0.95345	-0.189	0.8501
RR57G	-0.04735	-0.04758	0.97859	-1.142	0.2539
RR57H	0.04005	0.04035	0.98167	0.968	0.3333
RR57I	-0.01400	-0.01406	0.97767	-0.337	0.7361
RR57J	0.07069	0.07105	0.97877	1.708	0.0882
RR59B	-0.00606	-0.00573	0.86333	-0.137	0.8908
RR59C	-0.01362	-0.01370	0.97867	-0.328	0.7427
RR59D	-0.00202	-0.00185	0.81006	-0.044	0.9647
RR59E	-0.00679	-0.00684	0.98070	-0.164	0.8698
RR59F	0.03015	0.02939	0.92972	0.705	0.4810
RR59G	0.04463	0.04472	0.97067	1.073	0.2836
RR59H	-0.00665	-0.00653	0.93388	-0.157	0.8755

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 4.

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

THE FOLLOWING 4 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A RR54H RR56A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.1717	0.0295	0.0278	17.555	0.000	0.0295	17.555	0.000	IN:	RR50D	-0.1717	-0.1717	CATUSE RARE
2	0.2251	0.0507	0.0474	15.392	0.000	0.0212	12.869	0.000	IN:	RR49D	0.1472	0.1181	OLCUSE RARE
3	0.2557	0.0654	0.0605	13.437	0.000	0.0148	9.094	0.003	IN:	RR59D	0.1224	0.1394	DOCTORAL
4	0.2867	0.0822	0.0758	12.879	0.000	0.0168	10.537	0.001	IN:	RR49C	0.1325	0.0855	OLCUSE OCCAS
5	0.3023	0.0914	0.0835	11.547	0.000	0.0092	5.789	0.016	IN:	RQ55	-0.0962	-0.0869	MALE
6	0.3145	0.0989	0.0894	10.480	0.000	0.0075	4.765	0.029	IN:	RR50C	-0.1074	0.0325	CATUSE OCCAS
7	0.3362	0.1130	0.1022	10.414	0.000	0.0142	9.130	0.003	IN:	RR50E	-0.1355	-0.0589	CATUSE NEVER
8	0.3497	0.1223	0.1100	9.944	0.000	0.0092	6.010	0.015	IN:	RR50B	-0.1673	0.1010	CATUSE MOSTLY

VARIABLE(S) ENTERED ON STEP NUMBER 8.. RR50B CATUSE MOSTLY

MULTIPLE R	0.34968		
R SQUARE	0.12228	R SQUARE CHANGE	0.00924
ADJUSTED R SQUARE	0.10998	F CHANGE	6.01015
STANDARD ERROR	0.55236	SIGNIF F CHANGE	0.0145

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	8	24.27048	3.03381
RESIDUAL	571	174.21419	0.30510

F = 9.94354 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	SE B	BETA	T	SIG T
RR50D	-0.60068	0.10462	-0.45924	-5.742	0.0000
RR49D	0.51470	0.11823	0.17498	4.353	0.0000
RR59D	0.18063	0.06141	0.12065	2.941	0.0034
RR49C	0.18656	0.05067	0.15175	3.682	0.0003
RQ55	-0.11112	0.04735	-0.09260	-2.347	0.0193
RR50C	-0.40308	0.10111	-0.34218	-3.987	0.0001
RR50E	-0.49953	0.12808	-0.21957	-3.900	0.0001
RR50B	-0.27356	0.11159	-0.16727	-2.452	0.0145
(CONSTANT)	1.69858	0.10001		16.984	0.0000

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	0.00278	0.00293	0.20838	0.070	0.9442
RQ53B	0.01330	0.01411	0.20862	0.337	0.7364
RQ53C	-0.03061	-0.03219	0.20839	-0.769	0.4422
RQ53D	0.512D-03	0.00053	0.20853	0.013	0.9898
RQ53E	0.00927	0.00979	0.20824	0.234	0.8153
RQ53G	0.03950	0.04140	0.20701	0.989	0.3230
RQ58A	-0.03304	-0.03188	0.20298	-0.761	0.4467
RQ58B	0.00864	0.00900	0.20863	0.215	0.8300
RQ58C	0.01927	0.01762	0.20595	0.421	0.6741
RR48B	-0.03142	-0.03305	0.20704	-0.790	0.4301
RR48C	0.06299	0.06612	0.20799	1.582	0.1142
RR48D	-0.06598	-0.06598	0.20089	-1.579	0.1150
RR49B	0.08771	0.06290	0.19944	1.505	0.1330
RR49E	-0.02906	-0.02896	0.20468	-0.692	0.4894
RR51B	-0.03210	-0.03397	0.20863	-0.811	0.4174
RR51C	-0.02100	-0.02225	0.20835	-0.531	0.5954
RR51D	0.05408	0.05687	0.20742	1.360	0.1744
RR51E	0.05830	0.06174	0.20851	1.477	0.1403
RR51F	-0.03649	-0.03832	0.20752	-0.915	0.3603
RR52B	-0.00273	-0.00289	0.20802	-0.069	0.9451
RR52C	0.00697	0.00737	0.20863	0.176	0.8604
RR52D	-0.01805	-0.01917	0.20831	-0.458	0.6472
RR52E	-0.03100	-0.03285	0.20780	-0.785	0.4329
RR52F	0.00722	0.00761	0.20702	0.182	0.8558
RR54C	0.01711	0.01751	0.20547	0.418	0.6760
RR54D	-0.01563	-0.01504	0.20824	-0.359	0.7197
RR54E	0.00185	0.00194	0.20527	0.046	0.9631
RR54F	0.04175	0.04407	0.20845	1.053	0.2927
RR54G	-0.04822	-0.05095	0.20827	-1.218	0.2238
RR56C	-0.03416	-0.03071	0.20519	-0.733	0.4636
RR56D	0.03109	0.02790	0.20649	0.666	0.5054
RR57B	-0.01881	-0.01965	0.20861	-0.469	0.6391
RR57C	-0.02690	-0.02858	0.20839	-0.683	0.4952
RR57D	0.00319	0.00333	0.20862	0.080	0.9366
RR57E	-0.03916	-0.04120	0.20864	-0.984	0.3253
RR57F	-0.02748	-0.02864	0.20802	-0.684	0.4943
RR57G	-0.05384	-0.05651	0.20861	-1.351	0.1771
RR57H	-0.02102	-0.02232	0.20833	-0.533	0.5942
RR57I	-0.01053	-0.01111	0.20639	-0.265	0.7909
RR57J	-0.00459	-0.00488	0.20824	-0.117	0.9073

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

----VARI					
RR59B	-0.03632	-0.03627	0.20554	-0.867	0.3866
RR59C	0.04129	0.04275	0.20721	1.021	0.3075
RR59E	0.04695	0.04967	0.20773	1.187	0.2355
RR59F	0.02615	0.02706	0.20857	0.646	0.5183
RR59G	-0.01129	-0.01198	0.20840	-0.286	0.7749
RR59H	-0.07977	-0.07987	0.19603	-1.913	0.0562

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

EQUATION NUMBER 5.

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

THE FOLLOWING 4 VARIABLES ARE CONSTANTS OR HAVE MISSING CORRELATIONS AND CAN NOT BE USED:
RQ53F RR54A RR54H RR56A

BEGINNING BLOCK NUMBER 1. METHOD: STEPWISE

STEP	MULTR	RSQ	ADJRSQ	F(EQU)	SIGF	RSQCH	FCH	SIGCH		VARIABLE	BETAIN	CORREL	LABEL
1	0.2288	0.0523	0.0506	30.492	0.000	0.0523	30.492	0.000	IN:	RR50D	-0.2288	-0.2288	CATUSE RARE
2	0.2538	0.0644	0.0610	18.967	0.000	0.0121	7.104	0.008	IN:	RR50E	-0.1115	-0.0691	CATUSE NEVER
3	0.2895	0.0838	0.0788	16.767	0.000	0.0194	11.637	0.001	IN:	RR50C	-0.1832	0.0580	CATUSE OCCAS
4	0.3093	0.0956	0.0890	14.515	0.000	0.0118	7.190	0.008	IN:	RR49D	0.1102	0.0738	OLCUSE RARE
5	0.3279	0.1075	0.0993	13.199	0.000	0.0118	7.275	0.007	IN:	RR48B	-0.1096	-0.1314	LIBUSE WEEKLY
6	0.3397	0.1154	0.1057	11.890	0.000	0.0079	4.876	0.028	IN:	RQ55	-0.0893	-0.0685	MALE
7	0.3493	0.1220	0.1107	10.837	0.000	0.0066	4.115	0.043	IN:	RR57C	-0.0818	-0.0972	SOCIAL SCIENCES

VARIABLE(S) ENTERED ON STEP NUMBER 7.. RR57C SOCIAL SCIENCES

MULTIPLE R	0.34927		
R SQUARE	0.12199	R SQUARE CHANGE	0.00662
ADJUSTED R SQUARE	0.11073	F CHANGE	4.11482
STANDARD ERROR	0.54003	SIGNIF F CHANGE	0.0430

ANALYSIS OF VARIANCE

	DF	SUM OF SQUARES	MEAN SQUARE
REGRESSION	7	22.12355	3.16051
RESIDUAL	546	159.23141	0.29163

F = 10.83729 SIGNIF F = 0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

VARIABLES IN THE EQUATION

VARIABLE	B	SE B	BETA	T	SIG T
RR50D	-0.47004	0.06708	-0.36742	-7.007	0.0000
RR50E	-0.39051	0.09962	-0.17550	-3.920	0.0001
RR50C	-0.20642	0.06087	-0.17917	-3.391	0.0007
RR49D	0.30877	0.11723	0.10732	2.634	0.0087
RR48B	-0.12552	0.04677	-0.10879	-2.684	0.0075
RQ55	-0.10354	0.04731	-0.08822	-2.188	0.0291
RR57C	-0.10978	0.05412	-0.08184	-2.029	0.0430
(CONSTANT)	1.64745	0.06303		26.137	0.0000

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	MIN TOLER	T	SIG T
RQ53A	-0.05307	-0.05595	0.57379	-1.308	0.1914
RQ53B	-0.01226	-0.01300	0.57605	-0.304	0.7616
RQ53C	-0.00960	-0.01013	0.57396	-0.237	0.8131
RQ53D	0.01319	0.01386	0.57306	0.324	0.7464
RQ53E	-0.01005	-0.01063	0.57609	-0.248	0.8041
RQ53G	-0.00246	-0.00260	0.57437	-0.061	0.9516
RQ58A	-0.05744	-0.05816	0.53715	-1.360	0.1744
RQ58B	-0.00997	-0.01056	0.57509	-0.246	0.8054
RQ58C	0.02840	0.02853	0.53746	0.666	0.5054
RR48C	-0.02789	-0.02790	0.57604	-0.652	0.5150
RR48D	-0.03789	-0.03821	0.57082	-0.893	0.3725
RR49B	-0.02544	-0.02615	0.56195	-0.611	0.5417
RR49C	0.03967	0.04041	0.54243	0.944	0.3455
RR49E	0.00777	0.00788	0.57447	0.184	0.8541
RR50B	-0.08131	-0.04983	0.21117	-1.165	0.2446
RR51B	-0.01476	-0.01567	0.57598	-0.366	0.7146
RR51C	-0.02664	-0.02828	0.57497	-0.660	0.5093
RR51D	0.01853	0.01957	0.56727	0.457	0.6479
RR51E	-0.00114	-0.00121	0.57597	-0.028	0.9775
RR51F	-0.00367	-0.00387	0.56987	-0.090	0.9281
RR52B	-0.00422	-0.00446	0.57572	-0.104	0.9171
RR52C	-0.00503	-0.00531	0.57455	-0.124	0.9015
RR52D	-0.01029	-0.01096	0.57600	-0.256	0.7981
RR52E	-0.03401	-0.03605	0.57364	-0.842	0.4001
RR52F	0.00331	0.00349	0.57185	0.082	0.9350
RR54C	0.04747	0.04944	0.55982	1.156	0.2483
RR54D	-0.00178	-0.00186	0.56581	-0.043	0.9654
RR54E	-0.01465	-0.01537	0.56879	-0.359	0.7198
RR54F	-0.01664	-0.01763	0.57365	-0.412	0.6808
RR54G	0.01770	0.01870	0.57198	0.437	0.6625
RR56C	0.01320	0.01328	0.52909	0.310	0.7567
RR56D	-0.01013	-0.01020	0.53135	-0.238	0.8118
RR57B	0.669D-03	0.00069	0.57381	0.016	0.9871
RR57D	0.02219	0.02265	0.57190	0.529	0.5971
RR57E	-0.05220	-0.05486	0.57600	-1.283	0.2002
RR57F	-0.08116	-0.08305	0.57563	-1.946	0.0522
RR57G	-0.06294	-0.06586	0.57486	-1.541	0.1240
RR57H	-0.03054	-0.03246	0.57537	-0.758	0.4487
RR57I	0.00143	0.00151	0.57550	0.035	0.9719
RR57J	0.01761	0.01864	0.57597	0.435	0.6635

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

**** MULTIPLE REGRESSION ****

DEPENDENT VARIABLE.. RQ10 COMPUTER CAT COMPARED TO OTHER CAT

----VARI					
RR59B	0.03389	0.03496	0.55634	0.817	0.4146
RR59C	-0.05855	-0.06195	0.57499	-1.449	0.1479
RR59D	0.04935	0.05078	0.55350	1.187	0.2358
RR59E	-0.00620	-0.00656	0.57605	-0.153	0.8783
RR59F	0.02954	0.03104	0.57008	0.725	0.4687
RR59G	0.02539	0.02702	0.57593	0.631	0.5283
RR59H	-0.05188	-0.05435	0.56596	-1.271	0.2044

FOR BLOCK NUMBER 1 PIN = 0.050 LIMITS REACHED.

```
TRANSPACE REQUIRED..    20000 BYTES
    200 TRANSFORMATIONS
      0 RECODE VALUES + LAG VARIABLES
    857 IF/COMPUTE OPERATIONS

CPU TIME REQUIRED.. 1655.42 SECONDS


            177 FINISH

        NORMAL END OF JOB.
          177 CONTROL CARDS WERE PROCESSED.
            0 ERRORS WERE DETECTED.
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APPENDIX II

DISCRIMINANT ANALYSIS OF USER VARIABLES FOR FOUR LARGEST ACADEMIC SYSTEMS

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

DISCRIMINANT ANALYSIS

ON GROUPS DEFINED BY RQ5 IN THIS SEARCH I FOUND

1259 (UNWEIGHTED) CASES WERE PROCESSED.
414 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
4 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
221 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
189 HAD BOTH.
845 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ5	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	95	95.0	MORE THAN
2	121	121.0	ALL OR MOST
3	370	370.0	SOME
4	259	259.0	NOTHING
TOTAL	845	845.0	

GROUP MEANS

RQ5	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.63158	2.30526	2.77895	3.71579	3.01053	1.67368	3.07368	3.34737
2	1.59504	2.54545	2.66942	3.70248	3.19008	1.70248	3.30579	2.90909
3	1.80811	2.59730	2.56486	3.78919	3.20000	1.68378	3.22432	3.30541
4	2.01158	2.83398	2.49807	4.05019	3.23938	1.63707	3.30502	3.26255
TOTAL	1.82012	2.62959	2.58343	3.84852	3.18935	1.67101	3.24379	3.24024

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 841 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.97701	6.598	0.0002
RQ49	0.97806	6.290	0.0003
RQ50	0.99293	1.996	0.1131
RQ51	0.99470	1.492	0.2152
RQ54	0.99650	0.9842	0.3995
RQ55	0.99743	0.7222	0.5389
RQ56	0.98749	3.551	0.0141
RQ59	0.99687	0.8806	0.4506

COVARIANCE MATRIX FOR GROUP 1, MORE THAN

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.7670773							
RQ49	0.4983203D-01	1.341993						
RQ50	0.9854423D-01	0.6819709D-01	1.344233					
RQ51	0.9630459D-01	0.6940649	0.1492721	3.886450				
RQ54	-0.1450168	-0.6707727D-01	-0.1891377	-0.2097424	1.350952			
RQ55	0.3807391D-01	-0.8017917D-01	0.1824188	-0.8309071D-01	-0.2844345D-01	0.2221725		
RQ56	-0.1534155	0.2113102	0.2709966D-01	0.2977604	0.1907055	-0.2889138D-01	0.5370661	
RQ59	0.6931691	-0.4795073	-0.2521837	-0.8044793	0.7622620	0.3060470	-0.2492721	7.229115

COVARIANCE MATRIX FOR GROUP 2, ALL OR MOST

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.4096419							
RQ49	-0.5227273D-01	0.9166667						
RQ50	-0.1831956D-01	-0.4318182D-01	0.9064738					
RQ51	-0.2464876	0.2469697	0.1674931	3.394077				
RQ54	-0.1223829	-0.1287879D-01	-0.3449725	-0.5964187D-01	1.005234			
RQ55	-0.6315427D-01	-0.2803030D-01	0.5915978D-01	0.3574380D-01	-0.1308540D-02	0.2107438		
RQ56	-0.2513774D-01	0.4848485D-01	-0.1147383	-0.4159780D-01	0.1830579	0.2506887D-01	0.3140496	
RQ59	0.1795455	-0.2500000	-0.6469697	-0.6189394	1.234091	-0.1772727	0.4530303	4.850000

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ49	0.58533*	0.05746	0.06761
RQ56	0.35343	0.59894*	0.03336
RQ48	0.54905	-0.55297*	0.02531
RQ59	0.01578	-0.48149*	-0.32085
RQ50	-0.31145	0.06432	0.59096*
RQ55	-0.14611	0.22273	-0.51714*
RQ51	0.25904	-0.18808	0.48698*
RQ54	0.20365	0.17643	-0.44322*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	-0.50536	-0.15122	0.06665
2	-0.16113	0.25607	0.02642
3	-0.04298	-0.02284	-0.05022
4	0.32204	-0.03154	0.03496

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP	LABEL	RANK	LOG DETERMINANT
1	MORE THAN	8	0.986578
2	ALL OR MOST	8	-2.083458
3	SOME	8	0.125658
4	NOTHING	8	0.855028
	POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	0.436299

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
257.24	2.3271	108,	398919.9	0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ5 IN THIS SEARCH I FOUND

1339 (UNWEIGHTED) CASES WERE PROCESSED.
218 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
13 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
173 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
32 HAD BOTH.
1121 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ5	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	162	162.0	MORE THAN
2	294	294.0	ALL OR MOST
3	453	453.0	SOME
4	212	212.0	NOTHING
TOTAL	1121	1121.0	

GROUP MEANS

RQ5	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.93827	2.31481	3.13580	3.87654	3.18519	1.58025	3.36420	2.79012
2	1.86054	2.17007	2.98299	4.13265	3.20748	1.56122	3.39796	2.97279
3	2.00000	2.17219	2.92053	4.02870	3.25386	1.49890	3.44592	3.09492
4	2.08491	2.51415	3.03302	4.16509	3.21698	1.59906	3.41038	2.94340
TOTAL	1.97056	2.25691	2.98930	4.05977	3.22480	1.54594	3.41481	2.99019

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 1117 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.99448	2.068	0.1028
RQ49	0.97899	7.989	0.0000
RQ50	0.99480	1.948	0.1201
RQ51	0.99733	0.9956	0.3941
RQ54	0.99937	0.2363	0.8711
RQ55	0.99331	2.509	0.0574
RQ56	0.99699	1.126	0.3375
RQ59	0.99763	0.8854	0.4480

COVARIANCE MATRIX FOR GROUP 1, MORE THAN

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.213557							
RQ49	0.2928456	0.8505866						
RQ50	0.3314163	0.2799632	1.049766					
RQ51	-0.5114638D-01	0.2751323	0.1845717	3.549881				
RQ54	-0.1375661	-0.4002761D-01	-0.1867955	0.1658615	1.170462			
RQ55	-0.2607162D-01	-0.4715896D-01	-0.2959896D-01	-0.2322675	-0.1495284D-01	0.2450732		
RQ56	-0.1575033	-0.5325512D-01	-0.1056[illegible]	-0.6034813D-01	0.2551185	-0.1456943D-02	0.2951077	
RQ59	0.2851008	0.1679319D-01	-0.4585538[illegible]01	-0.2745188	1.318611	-0.7898167D-02	0.5427498	4.713442

COVARIANCE MATRIX FOR GROUP 2, ALL OR MOST

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.137482							
RQ49	0.1978593	0.7900908						
RQ50	0.3423301	0.2247452	1.088447					
RQ51	0.3564463	0.1172947	0.2855402	3.337292				
RQ54	-0.2235263	-0.9684010D-01	-0.3343433	-0.3313715	1.277623			
RQ55	-0.2044299D-01	0.4415964D-01	0.5394581D-01	-0.1088319	0.2611966D-02	0.2470920		
RQ56	-0.1149613	-0.5767222D-01	-0.1740963	-0.1997284	0.3642474	0.1149265D-02	0.2677091	
RQ59	0.9858141D-01	-0.7385480D-01	-0.4202596	-0.6141255	1.575631	-0.5293585D-01	0.5569409	4.811544

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ49	0.86835*	0.12633	-0.03798
RQ55	0.39924*	-0.39630	0.27620
RQ48	0.25403	0.52958*	-0.28227
RQ56	-0.13971	0.45412*	0.05180
RQ50	0.28321	-0.44990*	-0.33797
RQ59	-0.17067	0.34651*	0.15986
RQ54	-0.07032	0.20351*	-0.01560
RQ51	0.07172	0.12439	0.69461*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	0.09198	-0.16860	-0.12500
2	-0.08990	-0.10783	0.08655
3	-0.12190	0.09562	-0.02924
4	0.31486	0.07404	0.03798

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP LABEL	RANK	LOG DETERMINANT
1 MORE THAN	8	-0.824640
2 ALL OR MOST	8	-1.253122
3 SOME	8	-1.800842
4 NOTHING	8	-1.063217
POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-1.236842

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
156.70	1.4296	108,	1294559.0	0.0023

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ5 IN THIS SEARCH I FOUND

1247 (UNWEIGHTED) CASES WERE PROCESSED.
174 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
14 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
148 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
12 HAD BOTH.
1073 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ5	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	212	212.0	MORE THAN
2	341	341.0	ALL OR MOST
3	390	390.0	SOME
4	130	130.0	NOTHING
TOTAL	1073	1073.0	

GROUP MEANS

RQ5	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.99057	2.12736	3.00943	3.19811	3.37736	1.63679	3.40094	2.98113
2	2.04985	2.24047	3.39589	3.76833	3.35484	1.63636	3.46041	2.86804
3	2.22051	2.40000	3.52051	4.04359	3.28462	1.61795	3.36410	2.68974
4	2.25385	2.64615	3.41533	4.25385	3.26154	1.62308	3.33846	2.62308
TOTAL	2.12488	2.32526	3.36719	3.81454	3.32246	1.62815	3.39888	2.79590

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 1069 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.99106	3.215	0.0222
RQ49	0.97606	8.739	0.0000
RQ50	0.97144	10.48	0.0000
RQ51	0.96576	12.63	0.0000
RQ54	0.99779	0.7905	0.4992
RQ55	0.99967	0.1177	0.9497
RQ56	0.99276	2.597	0.0511
RQ59	0.99523	1.708	0.1637

COVARIANCE MATRIX FOR GROUP 1, MORE THAN

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.260574							
RQ49	0.5035769	1.069011						
RQ50	0.3887150	0.6859966	1.601806					
RQ51	0.2862380	0.4533220	0.8369847	3.695162				
RQ54	0.9362425D-01	-0.5302692D-01	-0.2168470	-0.2694268	1.060717			
RQ55	-0.7453277D-01	-0.5788861D-01	0.5083609D-01	-0.3670750D-01	0.6661898D-01	0.2323840		
RQ56	-0.8624698D-01	-0.1176563	-0.8436913D-01	-0.1603774	0.3503532	0.2783242D-01	0.3361128	
RQ59	0.4784941	-0.7815434D-01	-0.2462667	-0.6502727	1.391040	0.6420460D-01	0.5621032	4.065993

COVARIANCE MATRIX FOR GROUP 2, ALL OR MOST

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.188684							
RQ49	0.2791530	0.9302398						
RQ50	0.1184406	0.1133431	1.086924					
RQ51	0.4981887D-01	0.1029326	0.1802225	3.172641				
RQ54	-0.4421252D-01	-0.1414611	-0.1585389	0.2068311D-01	0.8531309			
RQ55	-0.7887701D-01	-0.2994652D-01	0.3208556D-02	-0.8743316D-01	-0.3823529D-01	0.2320856		
RQ56	-0.1024323	-0.9927549D-01	-0.4163360D-01	0.1286010D-01	0.2685009	-0.1149733D-01	0.2609281	
RQ59	0.1183629	-0.1828791	-0.1770140	-0.6301535D-01	1.120493	-0.1040107	0.5109367	3.273711

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ51	0.74500*	-0.02928	0.10778
RQ50	0.63060*	0.48702	-0.30384
RQ59	-0.26196*	0.13183	0.19888
RQ49	0.55358	-0.55522*	0.21400
RQ56	-0.15737	0.50608	0.68382*
RQ48	0.34346	-0.21911	-0.45201*
RQ54	-0.16924	0.12802	0.19263*
RQ55	-0.05580	0.03531	0.17517*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	-0.45332	-0.10448	-0.02137
2	-0.03679	0.13785	0.05740
3	0.17846	0.01776	-0.06697
4	0.30041	-0.24448	0.08520

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP	LABEL	RANK	LOG DETERMINANT
1	MORE THAN	8	-1.033265
2	ALL OR MOST	8	-1.796944
3	SOME	8	-1.660650
4	NOTHING	8	-2.114595
	POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-1.470901

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
175.36	1.5977	108,	887876.4	0.0001

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ5 IN THIS SEARCH I FOUND

616 (UNWEIGHTED) CASES WERE PROCESSED.
52 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
10 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
41 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
1 HAD BOTH.
564 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ5	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	65	65.0	MORE THAN
2	219	219.0	ALL OR MOST
3	221	221.0	SOME
4	59	59.0	NOTHING
TOTAL	564	564.0	

GROUP MEANS

RQ5	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.92308	2.26154	3.16923	3.98462	3.44615	1.64615	3.49231	3.26154
2	1.77626	2.37443	3.20548	4.01370	3.21461	1.61187	3.44292	2.98174
3	1.91403	2.36652	3.14027	4.08145	3.28507	1.57014	3.48869	3.07692
4	2.11864	2.74576	3.16949	3.96610	3.37288	1.67797	3.47458	3.32203
TOTAL	1.88298	2.39716	3.17199	4.03191	3.28546	1.60638	3.46986	3.08688

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 560 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.98885	2.104	0.0987
RQ49	0.98039	3.733	0.0112
RQ50	0.99907	0.1730	0.9146
RQ51	0.99939	0.1133	0.9523
RQ54	0.99397	1.133	0.3350
RQ55	0.99478	0.9787	0.4024
RQ56	0.99822	0.3327	0.8017
RQ59	0.99671	0.6162	0.6047

COVARIANCE MATRIX FOR GROUP 1, MORE THAN

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.072115							
RQ49	0.8293269D-01	0.5711538						
RQ50	0.4447115D-01	0.1269231	0.8615385					
RQ51	-0.3245192D-01	0.3165865	0.4088942	2.827885				
RQ54	0.6610577D-01	-0.2475962D-01	-0.1860577	-0.1649038	1.219712			
RQ55	-0.4326923D-01	-0.6225962D-01	-0.9543269D-01	-0.2399038	0.3533654D-01	0.2322115		
RQ56	0.5408654D-01	-0.5264423D-01	-0.3774038D-01	-0.2110577	0.4487981	0.2067308D-01	0.2850962	
RQ59	0.8798077	0.8653846D-02	-0.2324519	-0.2302885	1.631490	0.1252404	0.6973558	4.914904

COVARIANCE MATRIX FOR GROUP 2, ALL OR MOST

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.8717272							
RQ49	0.2676469	0.6756734						
RQ50	0.7370868D-01	0.1933518	0.8887772					
RQ51	0.4895061D-01	0.1141134	-0.2505341	2.958527				
RQ54	-0.2974320D-01	-0.1036613	-0.2323740	0.2456956D-01	0.8298773			
RQ55	-0.5971681D-01	-0.8336475D-01	0.1131080D-01	-0.7264044D-01	0.3780738D-01	0.2385740		
RQ56	-0.4723304D-01	-0.7944787D-01	-0.1235390	-0.4279251D-01	0.3173516	0.2591010D-01	0.2662226	
RQ59	0.2802983	-0.1032215	-0.4320096	-0.2520422	1.242470	0.1121444	0.7145490	3.715261

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ49	0.80008*	-0.44252	-0.16167
RQ48	0.53651*	0.53544	-0.22730
RQ54	0.21235	0.65481*	0.27025
RQ56	0.04814	0.38467*	-0.17952
RQ59	0.25357	0.36659*	0.15078
RQ55	0.27463	-0.05427	0.61991*
RQ51	-0.06619	0.05040	-0.23828*
RQ50	-0.02743	-0.21996	0.23036*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	-0.04889	0.19746	0.17014
2	-0.08042	-0.10339	0.04468
3	-0.03496	0.05181	-0.09955
4	0.48330	-0.02782	0.01959

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP LABEL	RANK	LOG DETERMINANT
1 MORE THAN	8	-2.734098
2 ALL OR MOST	8	-3.308012
3 SOME	8	-2.772305
4 NOTHING	8	-1.727143
POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-2.544722

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
181.17	1.6132	108,	129367.8	0.0001

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

1259 (UNWEIGHTED) CASES WERE PROCESSED.
415 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
5 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
210 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
200 HAD BOTH.
844 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ6	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	281	281.0	VERY SATISFACTORY
2	290	290.0	SOMEWHAT SATISFACTOR
3	124	124.0	SOMEWHAT UNSATISFACT
4	149	149.0	VERY UNSATISFACTORY
TOTAL	844	844.0	

GROUP MEANS

RQ6	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.72242	2.47331	2.68327	3.80783	3.17438	1.67972	3.23488	3.26335
2	1.85517	2.70000	2.62414	3.73793	3.10690	1.68621	3.18276	3.23448
3	1.72581	2.58871	2.38710	3.86290	3.25000	1.63710	3.33065	2.90323
4	2.01342	2.82550	2.48322	4.09396	3.32215	1.64430	3.30201	3.48322
TOTAL	1.81991	2.63033	2.58412	3.84242	3.18839	1.66943	3.24289	3.23934

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 840 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.98828	3.320	0.0194
RQ49	0.98584	4.022	0.0074
RQ50	0.98967	2.923	0.0331
RQ51	0.99573	1.200	0.3087
RQ54	0.99519	1.352	0.2563
RQ55	0.99821	0.5033	0.6801
RQ56	0.99264	2.077	0.1017
RQ59	0.99551	1.264	0.2856

COVARIANCE MATRIX FOR GROUP 1, VERY SATISFACTORY

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.7726741							
RQ49	0.6850534D-02	1.250178						
RQ50	0.1439120	0.1004448	1.110041					
RQ51	-0.1321047	0.3269954	0.1567743	3.598653				
RQ54	0.1414337	0.9931368D-01	-0.2445730	-0.5655821D-02	1.337341			
RQ55	-0.1422217D-01	-0.4072191D-01	0.7319522D-01	-0.1046263	-0.1093035D-02	0.2184799		
RQ56	-0.1417133	0.7057702D-01	-0.1146289	0.1417260	0.1838968	0.1478139D-01	0.4303508	
RQ59	0.6162176	-0.2429461	-0.3984367	-0.4134977	1.436057	0.7393238D-01	0.2557829	6.273259

COVARIANCE MATRIX FOR GROUP 2, SOMEWHAT SATISFACTOR

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.065458							
RQ49	0.2851211	1.228028						
RQ50	-0.4424293D-01	0.1602076	1.024329					
RQ51	-0.2353180	0.2671280	0.1191505	3.564300				
RQ54	-0.1401742	-0.1972318D-01	-0.2088176	-0.1687150D-01	1.057738			
RQ55	-0.1100107D-01	-0.2871972D-01	0.3735831D-01	-0.8251999D-01	-0.7863024D-02	0.2160721		
RQ56	-0.5648491D-01	-0.2456747D-01	-0.1248419	0.2037943D-01	0.3091159	0.1948455D-01	0.3990097	
RQ59	0.6845961	0.1501730	-0.5551605	-0.5404128	0.9091039	-0.1959193D-01	0.1265481	6.270087

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ49	0.58843*	0.44348	-0.19473
RQ48	0.49428*	0.48475	0.21862
RQ50	-0.46628*	0.44142	0.24477
RQ56	0.26591	-0.51877*	0.33676
RQ55	-0.17662	0.21579*	-0.08915
RQ59	0.08174	0.36573	0.54840*
RQ51	0.27855	-0.08968	0.49368*
RQ54	0.26750	-0.25134	0.46873*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	-0.19831	-0.03262	0.06907
2	-0.01049	0.12198	-0.08338
3	0.10692	-0.26644	-0.08687
4	0.30543	0.04583	0.10431

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP LABEL	RANK	LOG DETERMINANT
1 VERY SATISFACTORY	8	0.327426
2 SOMEWHAT SATISFACTOR	8	0.208237
3 SOMEWHAT UNSATISFACT	8	-1.472003
4 VERY UNSATISFACTORY	8	1.280989
POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	0.470286

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
234.65	2.1304	108.	723868.8	0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

1339 (UNWEIGHTED) CASES WERE PROCESSED.
216 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
11 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
175 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
30 HAD BOTH.
1123 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ6	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	475	475.0	VERY SATISFACTORY
2	387	387.0	SOMEWHAT SATISFACTOR
3	113	113.0	SOMEWHAT UNSATISFACT
4	148	148.0	VERY UNSATISFACTORY
TOTAL	1123	1123.0	

GROUP MEANS

RQ6	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.99789	2.22737	3.06105	4.10737	3.20421	1.54316	3.36842	3.02737
2	1.90181	2.16021	2.89406	3.97416	3.24548	1.53230	3.45995	2.95866
3	1.91150	2.37168	2.91150	3.83186	3.22124	1.60177	3.39823	2.84956
4	2.12162	2.49324	3.04054	4.31081	3.25000	1.52703	3.44595	3.02027
TOTAL	1.97240	2.25378	2.98575	4.06055	3.22618	1.54319	3.41318	2.98486

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 1119 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.99523	1.787	0.1478
RQ49	0.98557	5.462	0.0010
RQ50	0.99398	2.258	0.0801
RQ51	0.99480	1.948	0.1201
RQ54	0.99961	0.1472	0.9315
RQ55	0.99830	0.6333	0.5936
RQ56	0.99369	2.367	0.0693
RQ59	0.99933	0.2489	0.8622

COVARIANCE MATRIX FOR GROUP 1, VERY SATISFACTORY

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.289025							
RQ49	0.2452054	0.8384899						
RQ50	0.3186942	0.2624606	1.078543					
RQ51	0.2006485	0.1654097	0.1558783	3.404060				
RQ54	-0.1324806	-0.9294248D-01	-0.2466711	-0.1253475	1.167071			
RQ55	-0.2417055D-01	0.1970242D-01	0.4693760D-01	-0.1533777	-0.1447924D-02	0.2486609		
RQ56	-0.1173662	-0.6284699D-01	-0.1174772	-0.1345769	0.2853653	-0.1110371D-03	0.2922496	
RQ59	0.4452054	-0.2311348D-01	-0.1831090	-0.4291050	1.435328	-0.8567622D-02	0.5278703	5.153258

COVARIANCE MATRIX FOR GROUP 2, SOMEWHAT SATISFACTOR

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.8452558							
RQ49	0.7535714D-01	0.7152000						
RQ50	0.1553735	0.3097629	1.027607					
RQ51	0.1684406	0.2787618	0.2589134	3.258398				
RQ54	-0.8982341D-01	-0.8606124D-01	-0.3107135	-0.1309462	0.9214497			
RQ55	-0.4086168D-01	-0.1036939D-01	0.9907486D-02	-0.1960544	-0.5328621D-01	0.2496017		
RQ56	-0.5057504D-01	-0.5056165D-01	-0.1350832	-0.1124366	0.3246241	-0.1748537D-01	0.2749461	
RQ59	0.1073289	-0.1021676	-0.5043914	-0.8138196D-01	1.074942	-0.5824664D-01	0.4750238	3.905022

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ49	0.89655*	0.16288	-0.23233
RQ50	0.11551	0.65516*	0.03812
RQ56	0.10916	-0.57599*	0.51610
RQ48	0.36594	0.39347*	0.24479
RQ54	0.05265	-0.13510*	0.12670
RQ51	0.28171	0.39800	0.52431*
RQ55	0.03370	-0.04096	-0.51736*
RQ59	-0.01090	0.17744	0.19648*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	-0.05815	0.12398	-0.01349
2	-0.07866	-0.12641	0.04709
3	0.11040	-0.11858	-0.21052
4	0.30803	0.02317	0.08088

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP	LABEL	RANK	LOG DETERMINANT
1	VERY SATISFACTORY	8	-0.659592
2	SOMEWHAT SATISFACTOR	8	-2.092441
3	SOMEWHAT UNSATISFACT	8	-1.961498
4	VERY UNSATISFACTORY	8	-1.336489
	POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-1.213374

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
178.71	1.6243	108,	553776.4	0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

1247 (UNWEIGHTED) CASES WERE PROCESSED.
173 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
13 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
147 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
13 HAD BOTH.
1074 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ6	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	540	540.0	VERY SATISFACTORY
2	358	358.0	SOMEWHAT SATISFACTOR
3	107	107.0	SOMEWHAT UNSATISFACT
4	69	69.0	VERY UNSATISFACTORY
TOTAL	1074	1074.0	

GROUP MEANS

RQ6	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	2.01667	2.15741	3.31481	3.69444	3.36296	1.65556	3.44259	2.88148
2	2.18436	2.46648	3.45810	3.81844	3.30447	1.60894	3.36313	2.69553
3	2.36449	2.46729	3.36449	4.14953	3.15888	1.57009	3.32710	2.79439
4	2.23188	2.76812	3.44928	4.39130	3.34783	1.62319	3.34783	2.65217
TOTAL	2.12104	2.33054	3.37616	3.82588	3.32216	1.62942	3.39851	2.79609

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 1070 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.98853	4.140	0.0063
RQ49	0.96518	12.87	0.0000
RQ50	0.99623	1.350	0.2567
RQ51	0.98847	4.160	0.0061
RQ54	0.99573	1.528	0.2056
RQ55	0.99641	1.284	0.2786
RQ56	0.99282	2.578	0.0524
RQ59	0.99754	0.8788	0.4515

COVARIANCE MATRIX FOR GROUP 1, VERY SATISFACTORY

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.107328							
RQ49	0.2905071	0.9120972						
RQ50	0.1542981	0.2453446	1.247647					
RQ51	0.7003711D-01	0.2281488	0.4024943	3.474181				
RQ54	-0.4316636D-01	-0.1203188	-0.2016766	-0.1449186	0.8884216			
RQ55	-0.6846011D-01	-0.3659039D-01	0.6596578D-02	-0.8688930D-01	0.2135642D-01	0.2262214		
RQ56	-0.1094310	-0.1069024	-0.7280286D-01	-0.3334364D-01	0.3065897	0.2453102D-02	0.2879784	
RQ59	0.1708101	-0.1686937	-0.2093726	-0.2051123	1.156270	0.2032571D-01	0.5237958	3.433052

COVARIANCE MATRIX FOR GROUP 2, SOMEWHAT SATISFACTOR

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.237626							
RQ49	0.2134798	1.005876						
RQ50	0.1618077	0.3151182	1.094878					
RQ51	0.3164797	0.9333678D-01	0.2290659	3.263861				
RQ54	-0.4508396D-01	-0.8920551D-01	-0.1930895	-0.2299579D-01	0.8005962			
RQ55	-0.4534998D-01	-0.3275277D-01	0.8721030D-01	-0.9361063D-01	-0.4026415D-01	0.2387994		
RQ56	-0.1427633	-0.1082422	-0.1023896	-0.9354803D-01	0.2644790	-0.2286278D-01	0.2991409	
RQ59	0.8429964D-01	-0.2357245	-0.3811402	-0.3831667	0.9837175	-0.8298515D-01	0.5506471	3.114322

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ49	0.88287*	0.26094	-0.09416
RQ48	0.45374*	-0.40600	-0.33399
RQ56	-0.37573*	0.14756	0.34629
RQ54	-0.18790	0.46000*	0.30887
RQ51	0.45314	-0.24286	0.58896*
RQ50	0.23297	0.23968	-0.38034*
RQ55	-0.23081	0.23307	0.35087*
RQ59	-0.20555	-0.17328	0.21691*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	-0.19409	-0.00189	0.02778
2	0.12792	0.06367	-0.07901
3	0.23955	-0.28383	-0.00397
4	0.48381	0.12464	0.19868

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP	LABEL	RANK	LOG DETERMINANT
1	VERY SATISFACTORY	8	-1.603708
2	SOMEWHAT SATISFACTOR	8	-1.661505
3	SOMEWHAT UNSATISFACT	8	-0.856609
4	VERY UNSATISFACTORY	8	-2.363373
POOLED WITHIN-GROUPS COVARIANCE MATRIX		8	-1.470317

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
135.83	1.2243	108,	198842.1	0.0567

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ6 IN REL TO WHAT I WAS LOOKING FOR SEARCH

616 (UNWEIGHTED) CASES WERE PROCESSED.
44 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
2 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
40 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
2 HAD BOTH.
572 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ6	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	320	320.0	VERY SATISFACTORY
2	180	180.0	SOMEWHAT SATISFACTOR
3	38	38.0	SOMEWHAT UNSATISFACT
4	34	34.0	VERY UNSATISFACTORY
TOTAL	572	572.0	

GROUP MEANS

RQ6	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.87313	2.35625	3.20313	4.11563	3.31875	1.61563	3.48750	3.17500
2	1.93889	2.40556	3.16111	3.87778	3.23889	1.59444	3.47778	2.98889
3	1.60526	2.34211	2.92105	3.89474	3.23684	1.39474	3.44737	3.02632
4	1.91176	2.79412	3.00000	4.26471	3.38235	1.79412	3.41176	2.94118
TOTAL	1.88112	2.39685	3.15909	4.03497	3.29196	1.60490	3.47727	3.09266

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 568 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.99356	1.227	0.2992
RQ49	0.98647	2.597	0.0516
RQ50	0.99296	1.342	0.2599
RQ51	0.99467	1.015	0.3856
RQ54	0.99790	0.3983	0.7543
RQ55	0.97840	4.179	0.0061
RQ56	0.99862	0.2615	0.8531
RQ59	0.99784	0.4092	0.7464

COVARIANCE MATRIX FOR GROUP 1, VERY SATISFACTORY

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.003909							
RQ49	0.1908895	0.7692398						
RQ50	0.7812500D-01	0.2158111	0.9335325					
RQ51	0.5175353D-01	0.1122845	-0.6744710D-01	2.936432				
RQ54	0.4210423D-01	-0.1233150	-0.2530368	-0.2756661D-01	0.9262931			
RQ55	-0.4699255D-01	-0.5699451D-01	-0.9453370D-02	-0.1058875	0.2572492D-01	0.2373726		
RQ56	0.2198276D-01	-0.8017241D-01	-0.1306818	-0.8475705D-01	0.3425549	0.1242163D-01	0.2694357	
RQ59	0.6702978	-0.1471787	-0.4902038	-0.2804859	1.351567	0.1050940	0.7482759	4.339185

COVARIANCE MATRIX FOR GROUP 2, SOMEWHAT SATISFACTOR

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.8845127							
RQ49	0.2204531	0.7675667						
RQ50	0.1048727	0.1968653	0.8398200					
RQ51	0.9863439D-01	0.2191186D-01	0.1929857	2.979392				
RQ54	0.1040658	-0.8066418D-01	-0.3292055	-0.3002483	0.9984792			
RQ55	0.8597145D-02	0.1455618D-01	-0.2926754D-01	-0.7777778D-01	0.6390441D-01	0.2424271		
RQ56	-0.3209187D-01	-0.9428926D-01	-0.1612042	-0.2094351	0.3545003	0.3842334D-01	0.2844196	
RQ59	0.3847921	-0.7368094D-01	-0.5624457	-0.5711980	1.349038	0.1183737	0.6254500	3.687027

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ55	0.69415*	0.34854	0.05703
RQ49	0.51829*	-0.35035	-0.14181
RQ50	-0.01523	0.56928*	0.00769
RQ56	-0.09592	0.21496*	0.01362
RQ51	0.19793	0.10119	0.55208*
RQ48	0.21263	0.36467	-0.38775*
RQ59	-0.05538	0.18153	0.33591*
RQ54	0.13775	0.06079	0.32836*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	-0.01449	0.08000	0.07518
2	-0.02067	0.00532	-0.15852
3	-0.40358	-0.45192	0.08036
4	0.69689	-0.27601	0.04183

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP	LABEL	RANK	LOG DETERMINANT
1	VERY SATISFACTORY	8	-2.581622
2	SOMEWHAT SATISFACTOR	8	-2.730475
3	SOMEWHAT UNSATISFACT	8	-5.145205
4	VERY UNSATISFACTORY	8	-3.146999
POOLED WITHIN-GROUPS COVARIANCE MATRIX		8	-2.597087

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
131.37	1.1400	108,	37059.3	0.1522

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

1259 (UNWEIGHTED) CASES WERE PROCESSED.
422 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
12 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
201 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
209 HAD BOTH.
837 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ9	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	621	621.0	VERY FAVORABLE
2	175	175.0	SOMEWHAT FAVORABLE
3	24	24.0	SOMEWHAT UNFAVORABLE
4	17	17.0	VERY UNFAVORABLE
TOTAL	837	837.0	

GROUP MEANS

RQ9	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.80032	2.56200	2.63768	3.80193	3.16425	1.69243	3.24477	3.27536
2	1.82857	2.82857	2.42857	3.95429	3.11429	1.62857	3.26857	2.88571
3	1.91667	2.87500	2.50000	4.04167	3.41667	1.45833	3.16667	2.79167
4	2.35294	2.76471	2.82353	4.52941	4.17647	1.52941	3.05882	5.05882
TOTAL	1.82079	2.63082	2.59379	3.85544	3.18160	1.66906	3.24373	3.21625

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 833 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.99357	1.797	0.1462
RQ49	0.98842	3.253	0.0212
RQ50	0.99222	2.178	0.0892
RQ51	0.99599	1.118	0.3409
RQ54	0.98168	5.181	0.0015
RQ55	0.98908	3.065	0.0274
RQ56	0.99752	0.6890	0.5589
RQ59	0.98340	4.687	0.0030

COVARIANCE MATRIX FOR GROUP 1, VERY FAVORABLE

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.9568386							
RQ49	0.1607865	1.249779						
RQ50	0.92052360-01	0.1700795	1.144320					
RQ51	-0.1573555	0.2405252	0.1136045	3.636512				
RQ54	0.13495400-01	0.83348920-01	-0.2791024	-0.17414680-01	1.214914			
RQ55	-0.11513690-01	-0.91267990-02	0.51285650-01	-0.1029531	-0.42387410-02	0.2133136		
RQ56	-0.73627340-01	0.26736270-01	-0.1402057	0.58235940-01	0.3161836	0.18952260-01	0.3980572	
RQ59	0.7712015	0.61126690-01	-0.4307153	-0.4889201	1.245021	0.41280970-01	0.3099712	6.328892

COVARIANCE MATRIX FOR GROUP 2, SOMEWHAT FAVORABLE

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.8095238							
RQ49	0.50903120-01	0.9589491						
RQ50	-0.69786540-01	0.33661740-01	0.7750411					
RQ51	0.1990148	0.3082102	0.82922820-01	3.526634				
RQ54	-0.37766830-01	-0.37766830-01	-0.1469622	-0.2878489	0.8029557			
RQ55	-0.58292280-01	-0.29556650-01	0.33661740-01	-0.1952381	-0.32840720-02	0.2348112		
RQ56	-0.45648600-01	-0.28407220-01	-0.1100164	-0.1370772	0.2105090	-0.14614120-01	0.3125123	
RQ59	0.2331691	0.20525450-01	-0.3990148	-0.8385878	0.9269294	-0.82922820-01	0.4274220	4.642036

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ54	0.59423*	-0.26228	0.02961
RQ59	0.57036*	0.17561	0.51552
RQ48	0.30754*	-0.23525	0.29322
RQ56	-0.21637*	0.07436	0.20917
RQ49	-0.10674	-0.56943*	0.38566
RQ55	-0.10697	0.54726*	0.44460
RQ50	0.28884	0.33502*	-0.29464
RQ51	0.15664	-0.27912	0.32342*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	0.01905	0.10181	-0.00866
2	-0.21214	-0.24317	0.05416
3	0.10906	-0.58987	-0.25805
4	1.33386	-0.38314	0.12298

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP	LABEL	RANK	LOG DETERMINANT
1	VERY FAVORABLE	8	0.357272
2	SOMEWHAT FAVORABLE	8	-1.350908
3	SOMEWHAT UNFAVORABLE	8	-2.020122
4	VERY UNFAVORABLE	8	3.641093
POOLED WITHIN-GROUPS COVARIANCE MATRIX		8	0.367107

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
307.55	2.5172	108,	9361.6	0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

1339 (UNWEIGHTED) CASES WERE PROCESSED.
213 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
8 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
172 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
33 HAD BOTH.
1126 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ9	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	738	738.0	VERY FAVORABLE
2	308	308.0	SOMEWHAT FAVORABLE
3	66	66.0	SOMEWHAT UNFAVORABLE
4	14	14.0	VERY UNFAVORABLE
TOTAL	1126	1126.0	

GROUP MEANS

RQ9	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	2.01220	2.21003	3.14634	4.06640	3.16396	1.56504	3.38482	2.86856
2	1.84740	2.28896	2.70130	4.03896	3.32792	1.48377	3.45130	3.18506
3	1.89394	2.56061	2.48485	4.12121	3.56061	1.63636	3.59091	3.62121
4	2.28571	2.78571	3.28571	4.07143	3.35714	1.42857	3.57143	2.78571
TOTAL	1.96359	2.25933	2.98757	4.06217	3.23446	1.54529	3.41741	2.99822

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 1122 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.99378	2.341	0.0717
RQ49	0.98755	4.716	0.0028
RQ50	0.94693	20.96	0.0000
RQ51	0.99989	0.4160D-01	0.9887
RQ54	0.98846	4.365	0.0046
RQ55	0.99215	2.959	0.0314
RQ56	0.98899	4.165	0.0060
RQ59	0.99029	3.669	0.0120

COVARIANCE MATRIX FOR GROUP 1, VERY FAVORABLE

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.121968							
RQ49	0.1629712	0.8038613						
RQ50	0.2478737	0.2446636	1.004335					
RQ51	0.1403018	0.2261990	0.1585200	3.370077				
RQ54	-0.3999404D-01	-0.5890540D-01	-0.1990601	-0.8552765D-01	1.002932			
RQ55	-0.5031936D-01	-0.3502443D-02	0.4202932D-01	-0.2153148	-0.7286185D-02	0.2461032		
RQ56	-0.5897343D-01	-0.4429810D-01	-0.9031340D-01	-0.8935735D-01	0.2828173	-0.1996669D-02	0.2804749	
RQ59	0.4439388	-0.3070200D-01	-0.2100473	-0.2680592	1.189829	-0.9757201D-02	0.4536335	4.353122

COVARIANCE MATRIX FOR GROUP 2, SOMEWHAT FAVORABLE

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.9831528							
RQ49	0.1484729	0.8054804						
RQ50	0.1594822	0.3308939	0.8746563					
RQ51	0.1883751	0.2851220	0.1452261	3.066881				
RQ54	-0.2462139	-0.1699839	-0.3251830	-0.1626549	1.172247			
RQ55	0.2400694D-02	-0.3437117D-02	-0.2766614D-01	-0.1068573	-0.2560387D-01	0.2505499		
RQ56	-0.1458924	-0.8848725D-01	-0.1611743	-0.1055882	0.3433838	-0.2033715D-01	0.2679788	
RQ59	0.2335441	-0.2816638	-0.4168535	-0.2059309	1.307194	0.1115741D-01	0.4797263	4.770200

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

ANALYSIS NUMBER 1

DIRECT METHOD: ALL VARIABLES PASSING THE TOLERANCE TEST ARE ENTERED.

MINIMUM TOLERANCE LEVEL..... 0.00100

CANONICAL DISCRIMINANT FUNCTIONS

MAXIMUM NUMBER OF FUNCTIONS..... 3
MINIMUM CUMULATIVE PERCENT OF VARIANCE... 100.00
MAXIMUM SIGNIFICANCE OF WILKS' LAMBDA.... 1.0000

PRIOR PROBABILITY FOR EACH GROUP IS 0.25000

CANONICAL DISCRIMINANT FUNCTIONS

FUNCTION	EIGENVALUE	PERCENT OF VARIANCE	CUMULATIVE PERCENT	CANONICAL CORRELATION	: AFTER FUNCTION	WILKS' LAMBDA	CHI-SQUARED	D.F.	SIGNIFICANCE
					: 0	0.8981615	120.19	24	0.0000
1*	0.09070	81.42	81.42	0.2883745	: 1	0.9796271	23.033	14	0.0597
2*	0.01393	12.50	93.92	0.1171944	: 2	0.9932692	7.5572	6	0.2724
3*	0.00678	6.08	100.00	0.0820413	:				

* MARKS THE 3 CANONICAL DISCRIMINANT FUNCTION(S) TO BE USED IN THE REMAINING ANALYSIS.

STANDARDIZED CANONICAL DISCRIMINANT FUNCTION COEFFICIENTS

	FUNC 1	FUNC 2	FUNC 3
RQ48	0.14098	0.43874	-0.13013
RQ49	-0.63268	0.51016	-0.30573
RQ50	0.89107	0.20539	-0.18039
RQ51	-0.00208	0.08869	0.30600
RQ54	-0.02559	0.20984	-0.15169
RQ55	0.05767	0.49688	0.85707
RQ56	-0.08179	0.56998	-0.24910
RQ59	-0.21113	-0.31689	0.41337

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ50	0.76991*	0.37552	-0.21746
RQ54	-0.35184*	0.17767	0.01740
RQ59	-0.32148*	0.04231	0.24622
RQ49	-0.27818	0.58892*	-0.33536
RQ48	0.20885	0.39385*	-0.14575
RQ56	-0.32050	0.35509*	-0.09670
RQ51	0.00012	0.07616*	0.06704
RQ55	0.09411	0.43597	0.81153*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	0.20532	0.01544	0.01687
2	-0.32682	-0.12626	-0.04686
3	-0.75569	0.28991	0.15774
4	-0.07054	0.59709	-0.60206

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP	LABEL	RANK	LOG DETERMINANT
1	VERY FAVORABLE	8	-1.240348
2	SOMEWHAT FAVORABLE	8	-1.696353
3	SOMEWHAT UNFAVORABLE	8	-2.245941
4	VERY UNFAVORABLE	8	-5.930901
	POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-1.303942

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
194.98	1.6155	108,	6890.1	0.0001

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

1247 (UNWEIGHTED) CASES WERE PROCESSED.
167 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
7 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
144 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
16 HAD BOTH.
1080 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ9	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	738	738.0	VERY FAVORABLE
2	285	285.0	SOMEWHAT FAVORABLE
3	43	43.0	SOMEWHAT UNFAVORABLE
4	14	14.0	VERY UNFAVORABLE
TOTAL	1080	1080.0	

GROUP MEANS

RQ9	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	2.00678	2.22087	3.42547	3.75745	3.29404	1.66396	3.40786	2.80352
2	2.28070	2.47018	3.23860	3.92632	3.41404	1.54737	3.40000	2.81754
3	2.79070	3.04651	3.25581	4.34884	3.23256	1.51163	3.30233	2.76744
4	2.85714	3.07143	3.64286	4.07143	3.42857	1.64286	3.28571	2.35714
TOTAL	2.12130	2.33056	3.37222	3.82963	3.32500	1.62685	3.40000	2.80000

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 1076 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.96610	12.59	0.0000
RQ49	0.95989	14.99	0.0000
RQ50	0.99320	2.456	0.0616
RQ51	0.99492	1.832	0.1395
RQ54	0.99627	1.345	0.2584
RQ55	0.98658	4.880	0.0022
RQ56	0.99795	0.7376	0.5297
RQ59	0.99921	0.2821	0.8383

COVARIANCE MATRIX FOR GROUP 1, VERY FAVORABLE

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.9972403							
RQ49	0.1586101	0.8778815						
RQ50	0.1043048	0.2491828	1.126731					
RQ51	0.1196916	0.2178226	0.3706376	3.532678				
RQ54	-0.7662170D-01	-0.1165918	-0.2107570	-0.1633205	0.7804529			
RQ55	-0.2621409D-01	-0.3015595D-01	0.4005104D-01	-0.9382871D-01	0.3963920D-02	0.2234210		
RQ56	-0.9774667D-01	-0.9834604D-01	-0.7743250D-01	-0.4069637D-01	0.2801826	-0.1607998D-01	0.2852570	
RQ59	0.1438024	-0.1885675	-0.2419352	-0.3204469	0.9872938	-0.3699169D-02	0.5402165	3.333122

COVARIANCE MATRIX FOR GROUP 2, SOMEWHAT FAVORABLE

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.364591							
RQ49	0.4696689	1.207734						
RQ50	0.3553249	0.4895355	1.280899					
RQ51	0.2672350	0.1932172	0.4260934	3.237509				
RQ54	-0.7474673D-02	-0.1178898	-0.1554732	-0.5037064D-01	1.004028			
RQ55	-0.1048925	-0.6460341D-01	0.6263899D-02	-0.1074129	0.8487769D-02	0.2486286		
RQ56	-0.1514085	-0.1323944	-0.9577465D-01	-0.6197183D-01	0.3126761	-0.4929577D-02	0.3042254	
RQ59	0.4787497D-01	-0.3610946	-0.3788485	-0.3444774	1.188485	-0.3005930D-01	0.5978873	3.431381

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ49	0.66950*	0.47695	0.00339
RQ48	0.62013*	0.30937	0.09462
RQ51	0.23237*	0.09937	-0.20990
RQ50	-0.19006	0.62291*	0.31669
RQ55	-0.34851	0.56743*	0.19071
RQ54	0.10287	-0.47443*	0.44855
RQ56	-0.12181	-0.30095*	0.01930
RQ59	-0.03065	-0.20696	-0.26974*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	-0.18324	0.02520	-0.00559
2	0.29414	-0.11767	0.02166
3	0.92618	0.21604	-0.20564
4	0.82683	0.40330	0.48539

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP	LABEL	RANK	LOG DETERMINANT
1	VERY FAVORABLE	8	-1.898996
2	SOMEWHAT FAVORABLE	8	-1.099642
3	SOMEWHAT UNFAVORABLE	8	-0.360343
4	VERY UNFAVORABLE	8	-1.090156
	POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-1.482299

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
146.21	1.2008	108,	6985.3	0.0780

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ9 GENERAL ATTITUDE TOWARD COMPUTER CAT IS

616 (UNWEIGHTED) CASES WERE PROCESSED.
46 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
4 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
40 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
2 HAD BOTH.
570 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ9	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	413	413.0	VERY FAVORABLE
2	135	135.0	SOMEWHAT FAVORABLE
3	17	17.0	SOMEWHAT UNFAVORABLE
4	5	5.0	VERY UNFAVORABLE
TOTAL	570	570.0	

GROUP MEANS

RQ9	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.88136	2.34140	3.28329	4.01695	3.25908	1.63196	3.44794	3.04600
2	1.91111	2.54815	2.89630	4.07407	3.35556	1.52593	3.53333	3.21481
3	1.58824	2.29412	2.35294	3.94118	3.58824	1.52941	3.76471	3.47059
4	1.60000	3.20000	2.40000	4.40000	3.60000	1.60000	3.60000	3.00000
TOTAL	1.87719	2.39649	3.15614	4.03158	3.29474	1.60351	3.47895	3.09825

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 3 AND 566 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.99641	0.6801	0.5645
RQ49	0.98253	3.355	0.0187
RQ50	0.94228	11.56	0.0000
RQ51	0.99932	0.1277	0.9436
RQ54	0.99449	1.045	0.3722
RQ55	0.99091	1.731	0.1594
RQ56	0.98536	2.803	0.0392
RQ59	0.99771	0.4340	0.7288

COVARIANCE MATRIX FOR GROUP 1, VERY FAVORABLE

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.012588							
RQ49	0.1910894	0.8030631						
RQ50	0.1137897	0.2258633	0.8637251					
RQ51	0.1282294	0.4274313D-01	0.2674017D-01	3.031265				
RQ54	0.7450222D-01	-0.7167540D-01	-0.2313407	-0.8935330D-01	0.9351419			
RQ55	-0.1707257D-01	-0.2453043D-01	-0.9561814D-02	-0.6656245D-01	0.2276734D-01	0.2331508		
RQ56	0.1686688D-01	-0.7077623D-01	-0.1174981	-0.1119796	0.3351219	0.1477468D-01	0.2673076	
RQ59	0.6195491	-0.7399680D-01	-0.3917053	-0.3333059	1.400673	0.8250664D-01	0.7244881	4.267296

COVARIANCE MATRIX FOR GROUP 2, SOMEWHAT FAVORABLE

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.8726368							
RQ49	0.1908789	0.7122167						
RQ50	0.1310116D-01	0.2438364	0.7652847					
RQ51	-0.8291874D-03	0.1829740	0.1569928	2.815368				
RQ54	0.9900498D-01	-0.2187396	-0.3135987	-0.1235489	0.9771144			
RQ55	-0.3499173D-01	0.1553344D-01	-0.2714207D-01	-0.1064124	0.1250415	0.2511885		
RQ56	-0.4925373D-01	-0.1452736	-0.1681592	-0.1218905	0.3611940	0.5323383D-01	0.2805970	
RQ59	0.3177446	-0.3872858	-0.7760641	-0.2324489	1.326036	0.1996130	0.7129353	4.020674

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2	FUNC 3
RQ50	0.72900*	0.41709	-0.01885
RQ54	-0.21156*	-0.18561	0.20089
RQ49	-0.30473	0.88092*	0.06323
RQ56	-0.33112	-0.51774*	0.06270
RQ51	-0.04301	0.21657*	0.07321
RQ55	0.25303	-0.03311	0.64657*
RQ48	0.07861	0.34163	-0.61669*
RQ59	-0.12360	-0.19803	-0.21284*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2	FUNC 3
1	0.19235	-0.00570	0.01449
2	-0.41993	0.05637	-0.07833
3	-0.92612	-0.46016	0.10434
4	-1.40136	0.51329	0.56358

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE OF THE GROUP COVARIANCE MATRICES.

GROUP LABEL	RANK	LOG DETERMINANT
1 VERY FAVORABLE	8	-2.518902
2 SOMEWHAT FAVORABLE	8	-3.165343
3 SOMEWHAT UNFAVORABLE	8	-7.380750
4 VERY UNFAVORABLE	< 5	(TOO FEW CASES TO BE NON-SINGULAR)
POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-2.632694

SINCE SOME COVARIANCE MATRICES ARE SINGULAR, THE USUAL PROCEDURE WILL NOT WORK. THE NON-SINGULAR GROUPS WILL BE TESTED AGAINST THEIR OWN POOLED WITHIN-GROUPS COVARIANCE MATRIX. THE LOG OF ITS DETERMINANT IS -2.575956

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
132.35	1.6328	72,	5530.3	0.0006

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE DLA

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ10 COMPUTER CAT COMPARED TO OTHER CAT

1259 (UNWEIGHTED) CASES WERE PROCESSED.
482 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
72 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
189 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
221 HAD BOTH.
777 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ10	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	541	541.0	BETTER
2	134	134.0	EQUAL
3	102	102.0	WORSE
TOTAL	777	777.0	

GROUP MEANS

RQ10	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.80037	2.53420	2.74677	3.72643	3.09427	1.68022	3.18484	3.17930
2	1.76866	2.80597	2.46269	4.09701	3.18657	1.61194	3.29104	2.79104
3	1.83333	2.77451	2.12745	3.99020	3.49020	1.69608	3.35294	3.69608
TOTAL	1.79923	2.61261	2.61647	3.82497	3.16216	1.67053	3.22523	3.18018

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 2 AND 774 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.99966	0.1299	0.8782
RQ49	0.98801	4.696	0.0094
RQ50	0.95634	17.67	0.0000
RQ51	0.99358	2.499	0.0828
RQ54	0.98570	5.614	0.0038
RQ55	0.99664	1.306	0.2715
RQ56	0.99009	3.872	0.0212
RQ59	0.98972	4.021	0.0183

COVARIANCE MATRIX FOR GROUP 1, BETTER

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.9711850							
RQ49	0.1642466	1.297440						
RQ50	0.9935305D-01	0.1855275	1.126494					
RQ51	-0.1121209	0.3186315	0.1231875	3.647244				
RQ54	0.9594715D-02	0.4584446D-01	-0.2501575	-0.7496406D-02	1.229986			
RQ55	-0.1025193D-01	-0.1960019D-01	0.8368590D-01	-0.1061614	-0.1424317D-01	0.2179229		
RQ56	-0.5932772D-01	0.5292668D-01	-0.1160676	0.6732731D-01	0.2436537	0.1477374D-01	0.4176217	
RQ59	0.6543780	-0.5336483D-01	-0.4582152	-0.7082666	1.197881	0.4633053D-01	0.2408708	6.269645

COVARIANCE MATRIX FOR GROUP 2, EQUAL

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.7355516							
RQ49	0.2244417D-01	0.9846257						
RQ50	-0.6508809D-01	0.9045001D-01	0.8369431					
RQ51	0.1729884	0.1618225	0.6003816D-01	3.201044				
RQ54	0.1261923	-0.3871619D-01	-0.2373471	-0.1610930	0.7995175			
RQ55	-0.9796880D-01	-0.6834250D-01	-0.1458871D-01	-0.2026709	0.5274380D-02	0.2392549		
RQ56	-0.7350466D-02	-0.1077320D-01	-0.1131186	-0.2164179	0.2159690	0.1604758D-01	0.2830771	
RQ59	0.5377623	-0.4836719D-01	-0.5341712	-0.2051397	1.001683	-0.2906520D-01	0.3169117	4.136461

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2
RQ50	-0.76955*	-0.25136
RQ54	0.40578*	0.37475
RQ49	0.37472*	-0.32207
RQ56	0.36395*	-0.01754
RQ59	0.10834	0.80240*
RQ55	-0.05794	0.45983*
RQ51	0.25886	-0.30777*
RQ48	0.01281	0.14800*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2
1	-0.17353	0.02298
2	0.27323	-0.23658
3	0.56141	0.18893

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP	LABEL	RANK	LOG DETERMINANT
1	BETTER	8	0.604971
2	EQUAL	8	-1.875286
3	WORSE	8	0.213087
	POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	0.321075

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
149.72	2.0266	72,	264334.1	0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE SYR

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ10 COMPUTER CAT COMPARED TO OTHER CAT

1339 (UNWEIGHTED) CASES WERE PROCESSED.
298 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
93 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
157 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
48 HAD BOTH.
1041 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ10	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	766	766.0	BETTER
2	194	194.0	EQUAL
3	81	81.0	WORSE
TOTAL	1041	1041.0	

GROUP MEANS

RQ10	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	2.01697	2.25326	3.15274	4.01958	3.15405	1.55875	3.38512	2.85901
2	1.74227	2.26289	2.68041	4.27835	3.34021	1.51546	3.46392	3.15464
3	1.81481	2.16049	2.43210	3.85185	3.50617	1.53086	3.54321	3.35802
TOTAL	1.95005	2.24784	3.00865	4.05476	3.21614	1.54851	3.41210	2.95293

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 2 AND 1038 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.98832	6.135	0.0022
RQ49	0.99920	0.4143	0.6609
RQ50	0.94004	33.10	0.0000
RQ51	0.99593	2.121	0.1205
RQ54	0.98811	6.246	0.0020
RQ55	0.99877	0.6397	0.5277
RQ56	0.99149	4.457	0.0118
RQ59	0.99393	3.169	0.0425

COVARIANCE MATRIX FOR GROUP 1, BETTER

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.130431							
RQ49	0.1904674	0.8272769						
RQ50	0.2640711	0.2423113	0.9923258					
RQ51	0.1565300	0.2708510	0.2427567	3.386544				
RQ54	-0.6274851D-01	-0.6390211D-01	-0.1934948	-0.1206676	0.9566307			
RQ55	-0.6047543D-01	-0.4440349D-02	0.9969453D-02	-0.2057271	0.7931876D-02	0.2468711		
RQ56	-0.6275363D-01	-0.4406901D-01	-0.9680882D-01	-0.1003618	0.2804655	0.2836226D-02	0.2763272	
RQ59	0.4795201	0.4607587D-03	-0.1915084	-0.3031178	1.122401	0.3064899D-02	0.4543695	4.306893

COVARIANCE MATRIX FOR GROUP 2, EQUAL

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.000588							
RQ49	0.1872763	0.7854548						
RQ50	0.1814546	0.2709791	0.8196143					
RQ51	0.2275519	0.2217830	-0.1230169	2.999840				
RQ54	-0.1968378	-0.1987073	-0.3570322	-0.2091769	1.210085			
RQ55	0.1955024D-01	-0.2222104D-01	0.3605577D-01	-0.1234977	-0.3637626D-01	0.2510550		
RQ56	-0.1492442	-0.7595748D-01	-0.1463063	-0.1660702	0.3335826	-0.2029806D-02	0.2810747	
RQ59	0.1851397	-0.3206559	-0.3441055	-0.2401581	1.517066	0.1314032D-01	0.4615672	4.701351

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2
RQ50	0.90658*	0.28661
RQ54	-0.38644*	-0.28525
RQ56	-0.32396*	-0.27643
RQ59	-0.27851*	-0.14332
RQ51	-0.08697	0.72214*
RQ48	0.37502	-0.38588*
RQ49	0.04929	0.30164*
RQ55	0.11880	-0.14780*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2
1	0.16423	-0.00705
2	-0.40742	0.12147
3	-0.57728	-0.22427

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP LABEL	RANK	LOG DETERMINANT
1 BETTER	8	-1.311270
2 EQUAL	8	-1.808374
3 WORSE	8	-2.266614
POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-1.392009

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
88.562	1.1985	72,	169149.1	0.1201

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE OHI

DISCRIMINANT ANALYSIS

ON GROUPS DEFINED BY RQ10 COMPUTER CAT COMPARED TO OTHER CAT

1247 (UNWEIGHTED) CASES WERE PROCESSED.
224 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
64 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
129 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
31 HAD BOTH.
1023 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ10	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	823	823.0	BETTER
2	158	158.0	EQUAL
3	42	42.0	WORSE
TOTAL	1023	1023.0	

GROUP MEANS

RQ10	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	2.03888	2.26367	3.47145	3.81531	3.28433	1.65978	3.38639	2.72539
2	2.36076	2.48734	2.98734	3.80380	3.34810	1.52532	3.41139	3.01899
3	2.26190	2.54762	2.76190	3.92857	3.85714	1.54762	3.54762	3.66667
TOTAL	2.09775	2.30987	3.36755	3.81818	3.31769	1.63441	3.39687	2.80938

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 2 AND 1020 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.98717	6.629	0.0014
RQ49	0.99116	4.546	0.0108
RQ50	0.96149	20.43	0.0000
RQ51	0.99984	0.7961D-01	0.9235
RQ54	0.98500	7.766	0.0004
RQ55	0.98851	5.929	0.0028
RQ56	0.99634	1.872	0.1544
RQ59	0.98766	6.373	0.0018

COVARIANCE MATRIX FOR GROUP 1, BETTER

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.008219							
RQ49	0.1564022	0.9437758						
RQ50	0.1312819	0.2295575	1.101069					
RQ51	0.9964731D-01	0.1789267	0.3645496	3.479230				
RQ54	-0.7919516D-01	-0.1115556	-0.1743532	-0.1372050	0.7560436			
RQ55	-0.4150000D-01	-0.3548971D-01	0.3771881D-01	-0.9210857D-01	-0.1689564D-02	0.2247430		
RQ56	-0.1184483	-0.1141690	-0.8384405D-01	-0.6602011D-01	0.2732171	-0.1315140D-01	0.2860433	
RQ59	0.7760020D-01	-0.2146115	-0.2024978	-0.3208516	0.9139387	-0.8381300D-02	0.5247256	3.145911

COVARIANCE MATRIX FOR GROUP 2, EQUAL

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	1.671571							
RQ49	0.6702008	1.270539						
RQ50	0.4950415	0.7769088	1.401113					
RQ51	0.7400226	0.6376280	0.5771184	3.368903				
RQ54	-0.1173103D-01	-0.1452471	-0.1930178	-0.3954688D-01	1.222003			
RQ55	-0.4422317D-01	-0.9231638D-02	0.6691929D-02	-0.1383133	0.4527131D-01	0.2509474		
RQ56	-0.1111425	-0.8074659D-01	-0.3297589D-01	-0.7941627D-02	0.3272192	0.5442232D-02	0.3073853	
RQ59	0.3880110	-0.2322422	-0.2991212	-0.3465694	1.611183	0.6639523D-01	0.5781263	4.362695

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2
RQ50	-0.65988*	-0.02933
RQ55	-0.34416*	0.27405
RQ49	0.31076*	-0.05783
RQ54	0.29522	0.85994*
RQ59	0.33590	0.46624*
RQ56	0.15521	0.38618*
RQ48	0.35641	-0.36737*
RQ51	0.01716	0.11503*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2
1	-0.14697	0.00850
2	0.54303	-0.14819
3	0.83715	0.39088

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP LABEL	RANK	LOG DETERMINANT
1 BETTER	8	-1.880158
2 EQUAL	8	-0.679296
3 WORSE	8	-1.129998
POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-1.509845

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
158.43	2.1011	72,	40398.2	0.0000

FILE FINALSUB (CREATION DATE = 08/08/83)
SUBFILE NOR

- D I S C R I M I N A N T A N A L Y S I S -

ON GROUPS DEFINED BY RQ10 COMPUTER CAT COMPARED TO OTHER CAT

616 (UNWEIGHTED) CASES WERE PROCESSED.
73 OF THESE WERE EXCLUDED FROM THE ANALYSIS.
31 HAD MISSING OR OUT-OF-RANGE GROUP CODES.
34 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.
8 HAD BOTH.
543 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

RQ10	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	436	436.0	BETTER
2	73	73.0	EQUAL
3	34	34.0	WORSE
TOTAL	543	543.0	

GROUP MEANS

RQ10	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
1	1.90138	2.38303	3.30963	4.06651	3.24083	1.62615	3.45642	2.98394
2	1.76712	2.34247	2.65753	3.65753	3.31507	1.53425	3.50685	3.26027
3	1.67647	2.52941	2.52941	4.44118	3.52941	1.52941	3.61765	3.50000
TOTAL	1.86924	2.38674	3.17311	4.03499	3.26888	1.60773	3.47330	3.05341

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO
WITH 2 AND 540 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
RQ48	0.99516	1.312	0.2701
RQ49	0.99800	0.5408	0.5826
RQ50	0.91502	25.08	0.0000
RQ51	0.98981	2.778	0.0630
RQ54	0.99426	1.559	0.2112
RQ55	0.99420	1.575	0.2080
RQ56	0.99379	1.687	0.1861
RQ59	0.99441	1.517	0.2203

COVARIANCE MATRIX FOR GROUP 1, BETTER

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.9672625							
RQ49	0.1734947	0.7793894						
RQ50	0.8348097D-01	0.2351524	0.8625277					
RQ51	0.8473584D-01	0.3883265D-01	0.5292102D-01	2.903612				
RQ54	0.6978277D-01	-0.1200411	-0.2494517	-0.1195033	0.9096858			
RQ55	-0.2546135D-01	-0.1969314D-01	-0.1217969D-02	-0.1130075	0.2587261D-01	0.2346251		
RQ56	-0.5457134D-02	-0.9706317D-01	-0.1370505	-0.1085891	0.3404039	0.1010756D-01	0.2716598	
RQ59	0.5179532	-0.1685490	-0.4249025	-0.3253664	1.321117	0.7444374D-01	0.7153907	3.988247

COVARIANCE MATRIX FOR GROUP 2, EQUAL

	RQ48	RQ49	RQ50	RQ51	RQ54	RQ55	RQ56	RQ59
RQ48	0.8477930							
RQ49	0.2614155	0.7560883						
RQ50	0.1830289	0.1466895	0.5894216					
RQ51	0.1830289	0.1883562	0.2699772	3.339422				
RQ54	0.1299467	-0.3995434D-01	-0.1267123	-0.2239346	0.6910198			
RQ55	-0.4052511D-01	0.8942161D-02	-0.3671994D-01	0.4946728D-02	0.1071157	0.2522831		
RQ56	0.5022831D-01	-0.3710046D-01	-0.1156773	-0.2684551	0.2825342	0.4490107D-01	0.2534247	
RQ59	0.4920091	0.2073820D-01	-0.3401826	-0.7012938	1.222412	0.2340183	0.7273592	3.945205

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1	FUNC 2
RQ50	0.89976*	0.06381
RQ55	0.22453*	0.05752
RQ59	-0.21616*	0.12784
RQ48	0.20330*	-0.08725
RQ51	0.07472	0.77680*
RQ49	-0.04081	0.33661*
RQ54	-0.19233	0.30981*
RQ56	-0.20815	0.28282*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1	FUNC 2
1	0.16602	0.00762
2	-0.61318	-0.22349
3	-0.81245	0.38213

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE
OF THE GROUP COVARIANCE MATRICES.

GROUP LABEL	RANK	LOG DETERMINANT
1 BETTER	8	-2.754765
2 EQUAL	8	-3.832278
3 WORSE	8	-2.609134
POOLED WITHIN-GROUPS COVARIANCE MATRIX	8	-2.729139

BOX'S M	APPROXIMATE F	DEGREES OF FREEDOM		SIGNIFICANCE
86.613	1.1248	72,	28489.6	0.2195

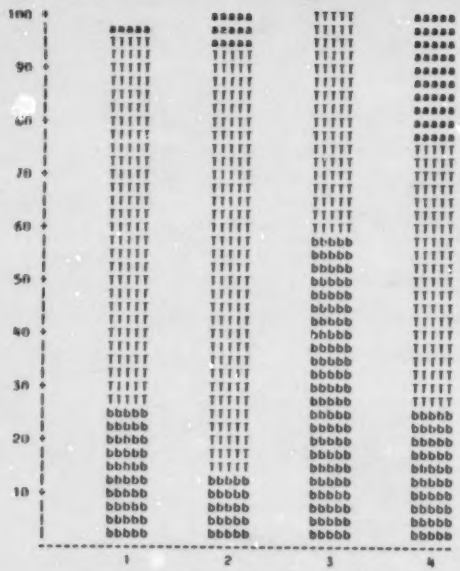
APPENDIX 4

Bar Charts

J. MATTHEWS & ASSOCIATES

BAR CHART OF SUMS

TASK_PCT SUM



RQ48 I COME TO THIS LIBRARY

SYMBOL TASK

b book

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T Topic

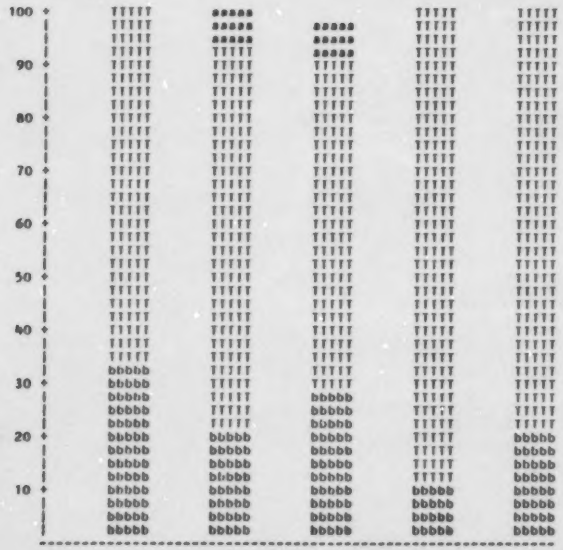
SYMBOL TASK

a author

LIBRARY=AUS

BAR CHART OF SUMS

TASK_PCT SUM



RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL TASK

b book

SYMBOL TASK

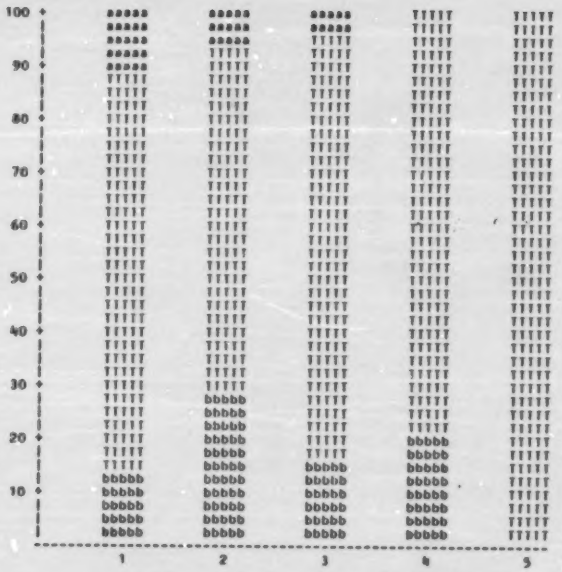
T Topic

SYMBOL TASK

a author

BAR CHART OF SUMS

TASK_PCT SUM



RQ49 I USE THIS COMPUTER CATALOG

SYMBOL TASK

b book

SYMBOL TASK

T Topic

SYMBOL TASK

a author

LIBRARY=AUS

BAR CHART OF SUMS

TASK_PCT SUM

RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL TASK

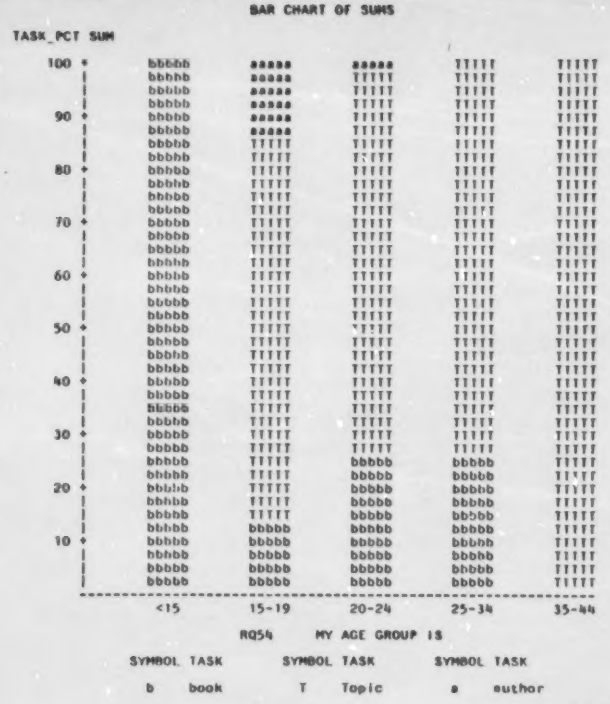
b book

SYMBOL TASK

T Topic

SYMBOL TASK

a author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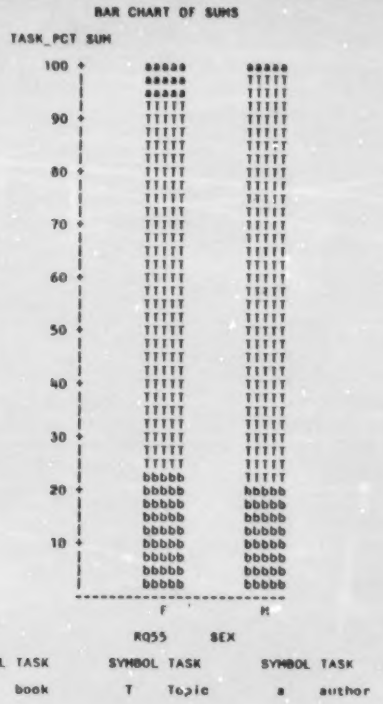
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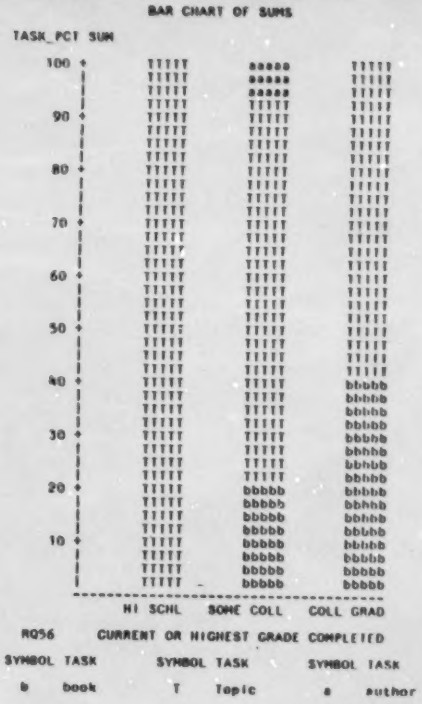
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RQ56 CURRENT OR HIGHEST GRADE COMPLETED
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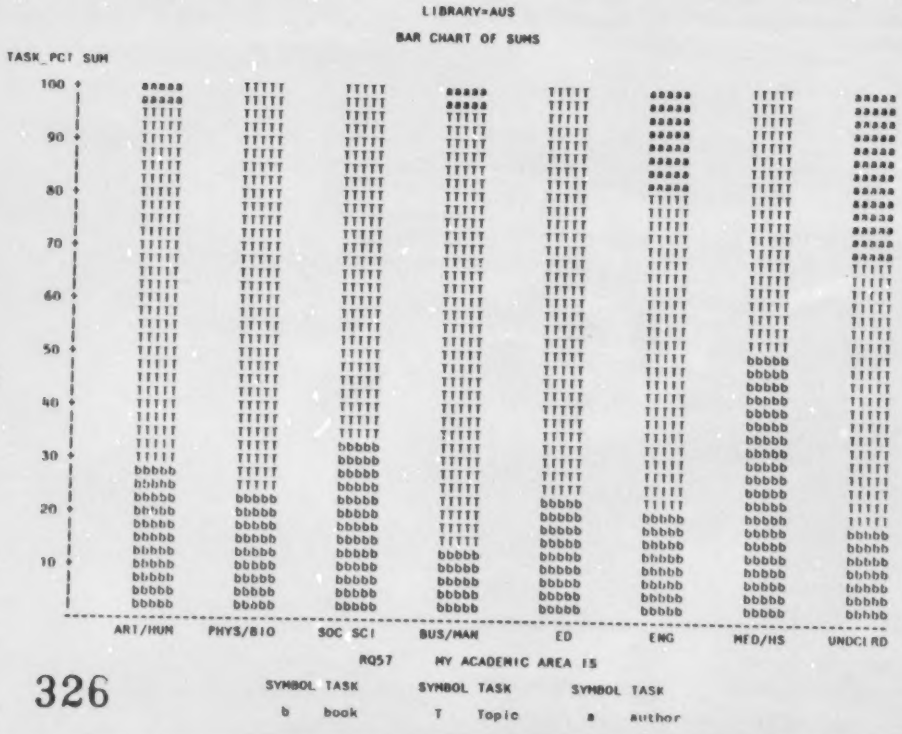
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BAR CHART OF SUMS
TASK_PCT SUM
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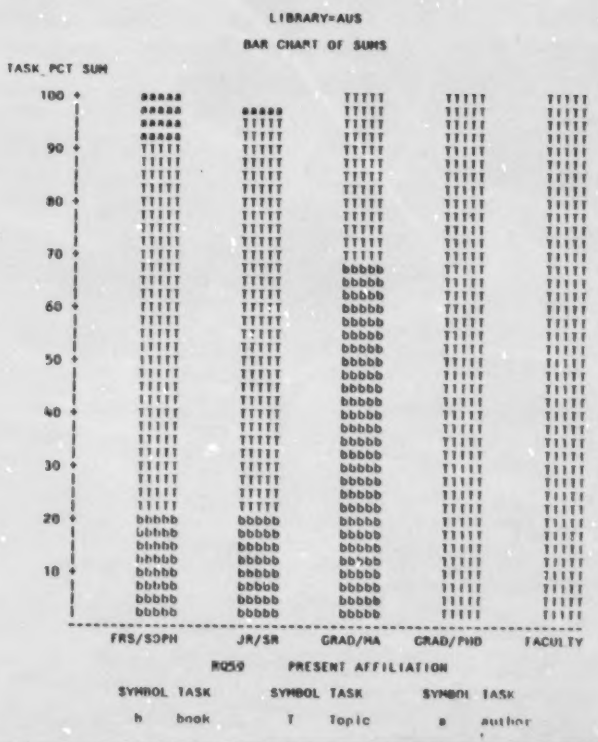
RQ57 MY ACADEMIC AREA IS
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author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BAR CHART OF SUMS
TASK_PCT SUM
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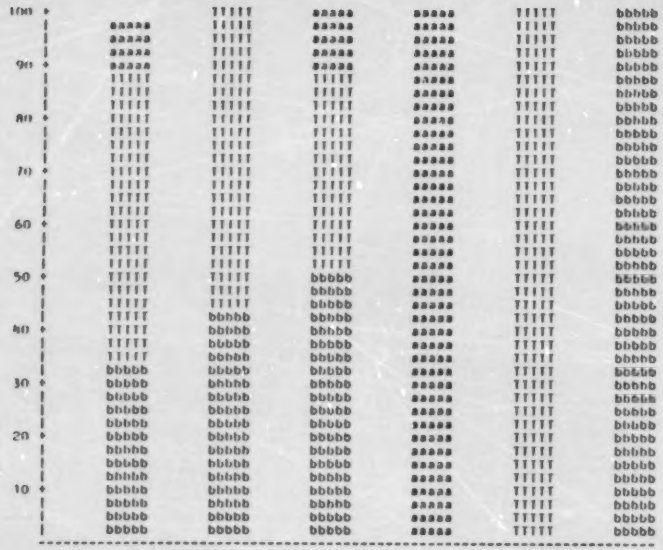
JR/SR
GRAD/MA
GRAD/PHD
FACULTY
RQ59 PRESENT AFFILIATION
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

BAR CHART OF SUMS

TASK_PCT SUM



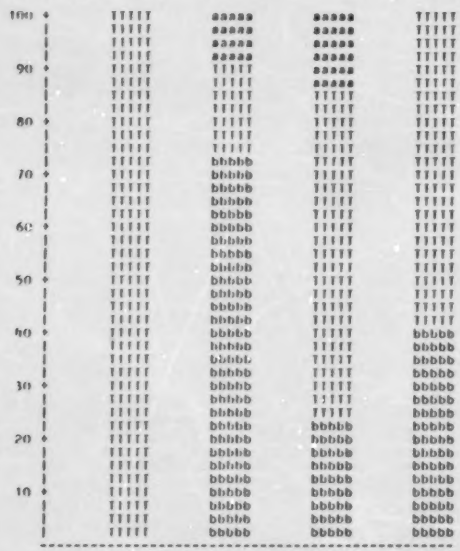
RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=CLA

BAR CHART OF SUMS

TASK_PCT SUM

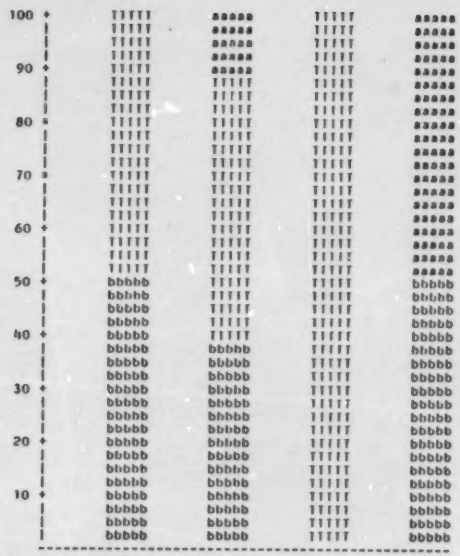


RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

BAR CHART OF SUMS

TASK_PCT SUM



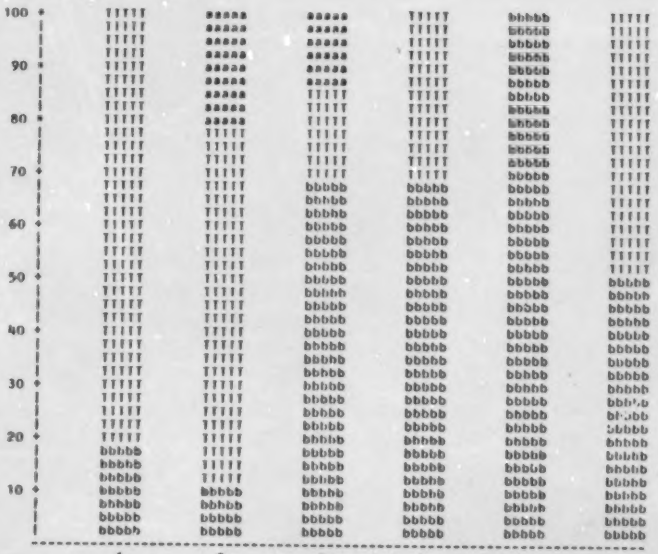
RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=CLA

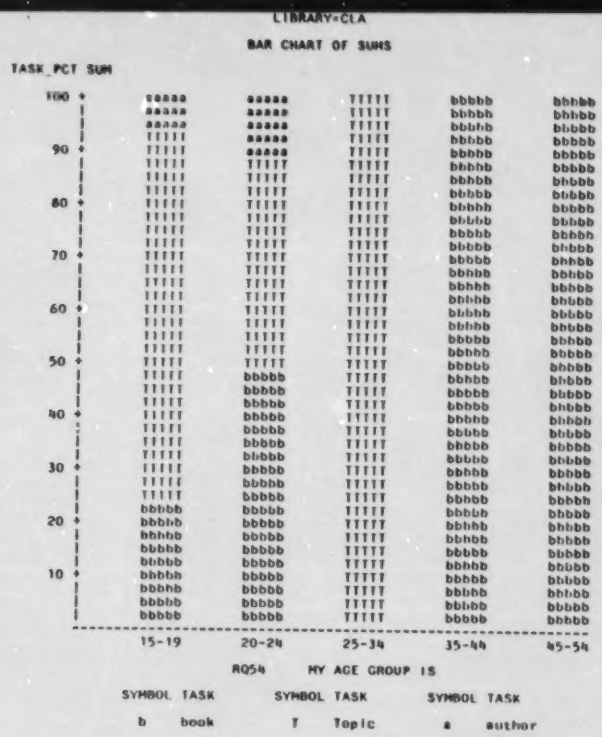
BAR CHART OF SUMS

TASK_PCT SUM



RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author


LIBRARY=CLA
BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
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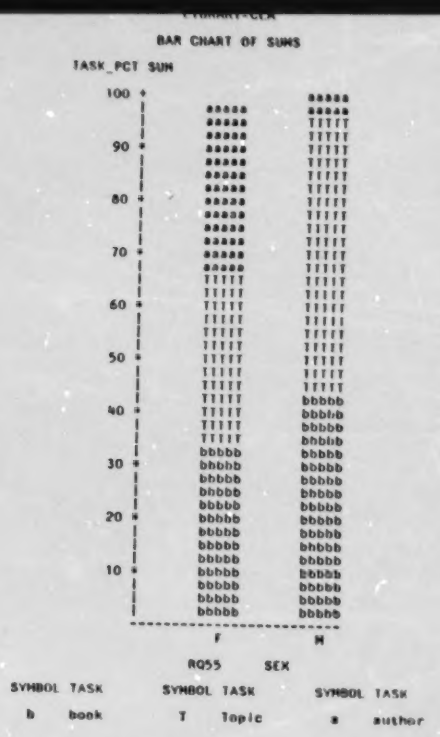
20-24
25-34
35-44
45-54
RQ54 MY AGE GROUP IS
SYMBOL TASK
b book
T Topic
a author


LIBRARY=CLA
BAR CHART OF SUMS
TASK_PCT SUM
100
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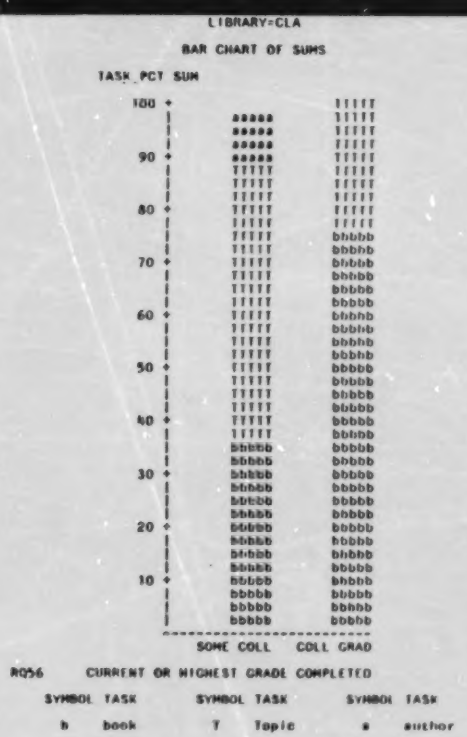
F
M
RQ55 SEX
SYMBOL TASK
b book
T Topic
a author


LIBRARY=CLA
BAR CHART OF SUMS
TASK_PCT SUM
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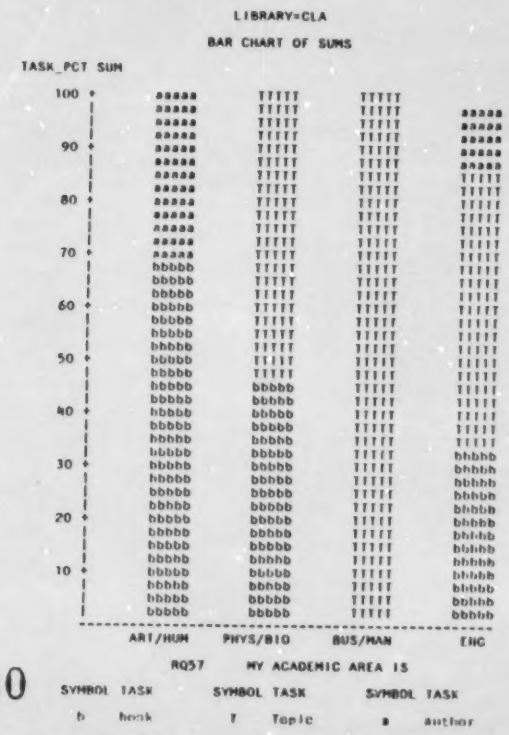
COLL GRAD
RQ56 CURRENT OR HIGHEST GRADE COMPLETED
SYMBOL TASK
b book
T Topic
a author


LIBRARY=CLA
BAR CHART OF SUMS
TASK_PCT SUM
100
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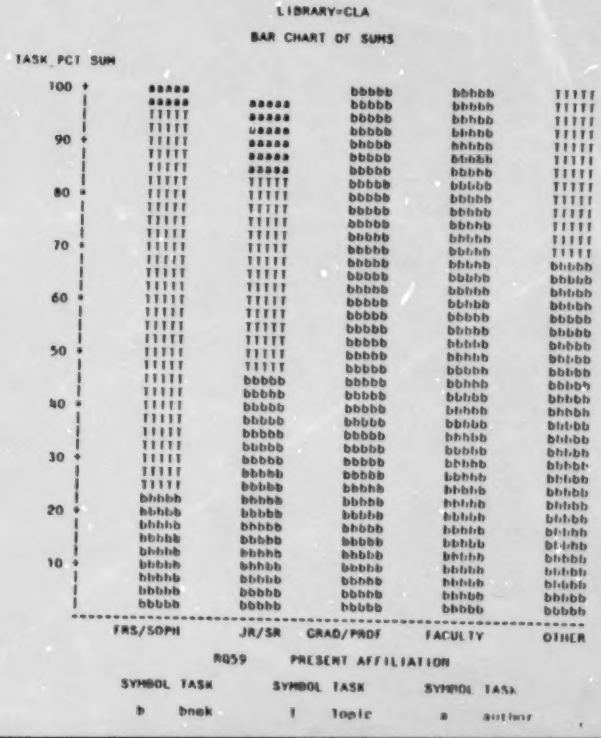
ART/HUM
PHYS/BIO
BUS/MAN
ENG
RQ57 MY ACADEMIC AREA IS
SYMBOL TASK
b book
T Topic
a author


LIBRARY=CLA
BAR CHART OF SUMS
TASK_PCT SUM
100
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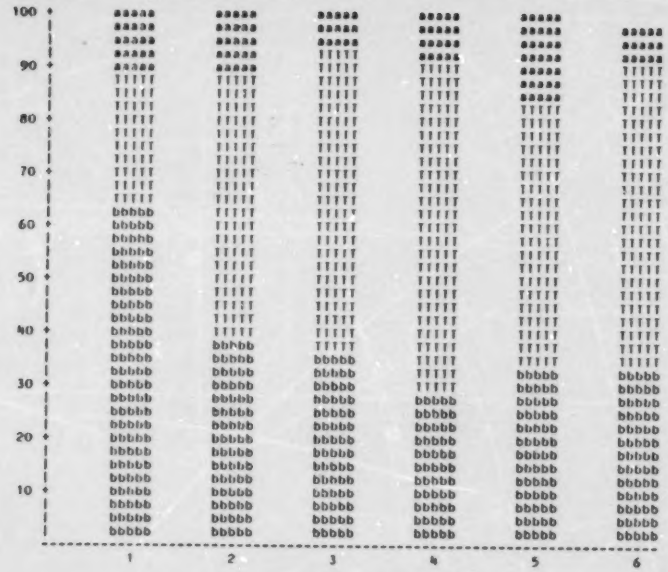
20
10
FRS/SOPH
JR/SR
GRAD/PROF
FACULTY
OTHER
RQ59 PRESENT AFFILIATION
SYMBOL TASK
b book
T Topic
a author

BAR CHART OF SUMS

TASK_PCT SUM



RQ48 I COME TO THIS LIBRARY

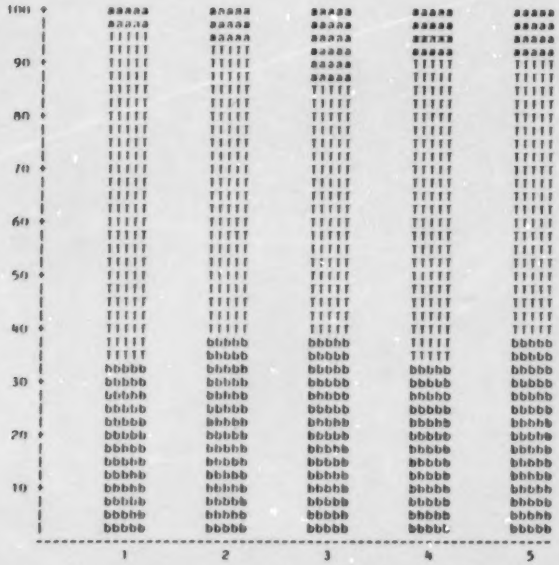
SYMBOL TASK SYMBOL TASK SYMBOL TASK

b book T Topic a author

LIBRARY=DAL

BAR CHART OF SUMS

TASK_PCT SUM



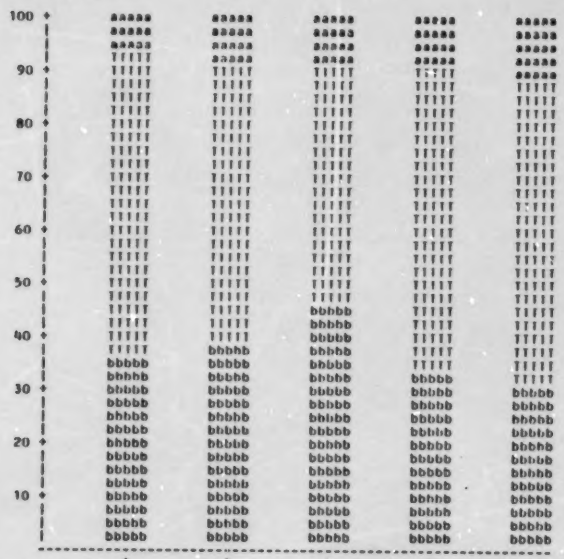
RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL TASK SYMBOL TASK SYMBOL TASK

b book T Topic a author

BAR CHART OF SUMS

TASK_PCT SUM



RQ49 I USE THIS COMPUTER CATALOG

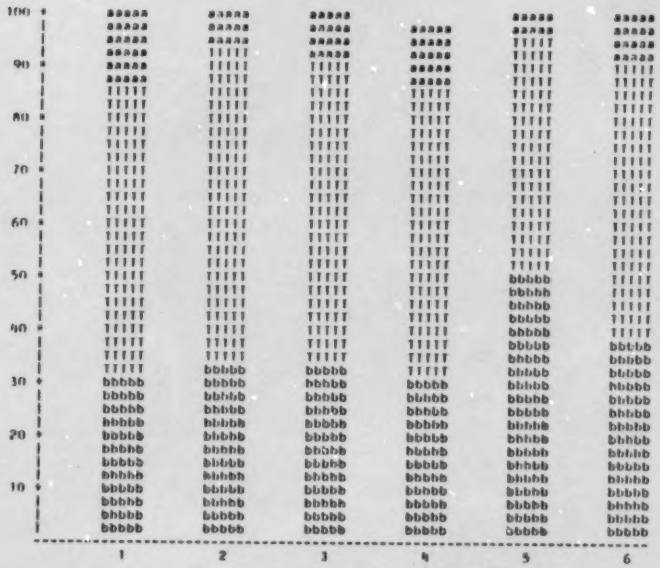
SYMBOL TASK SYMBOL TASK SYMBOL TASK

b book T Topic a author

LIBRARY=DAL

BAR CHART OF SUMS

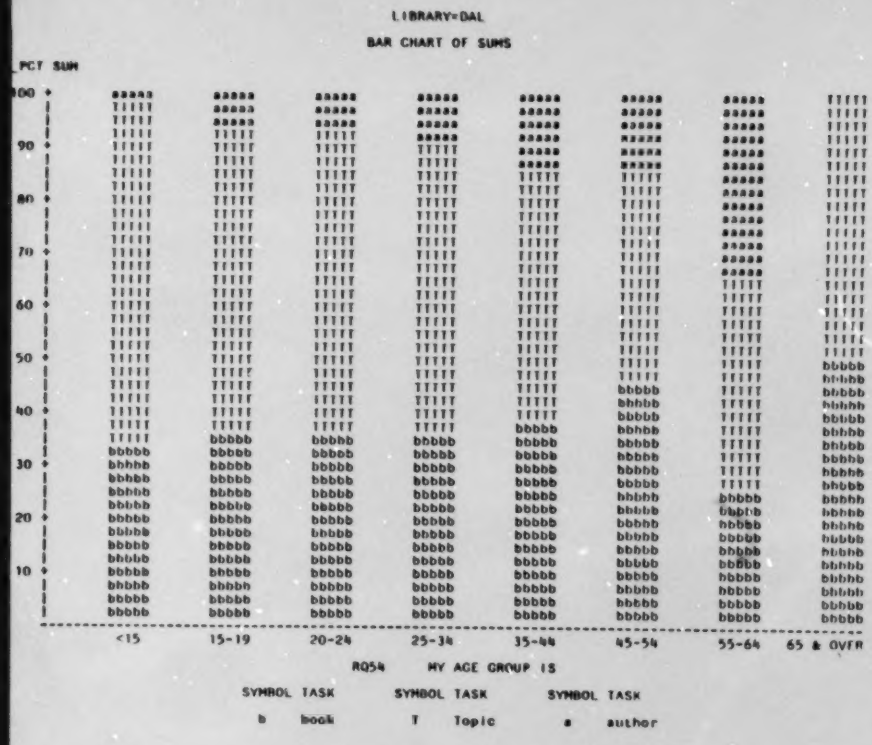
TASK_PCT SUM



RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL TASK SYMBOL TASK SYMBOL TASK

b book T Topic a author


LIBRARY=DAL
BAR CHART OF SUMS
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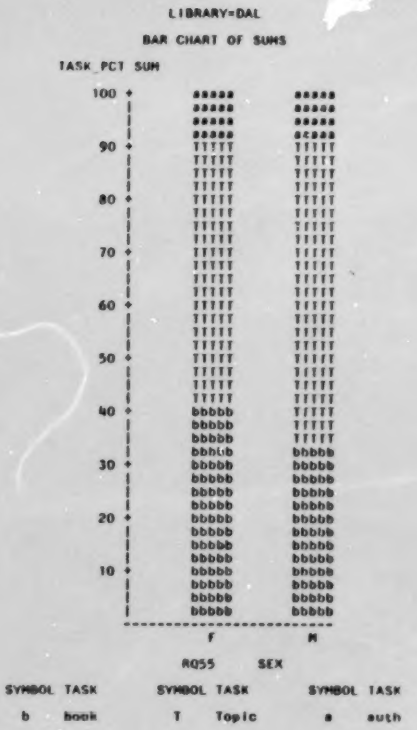
RQ54 MY AGE GROUP IS
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=DAL
BAR CHART OF SUMS
TASK_PCT SUM
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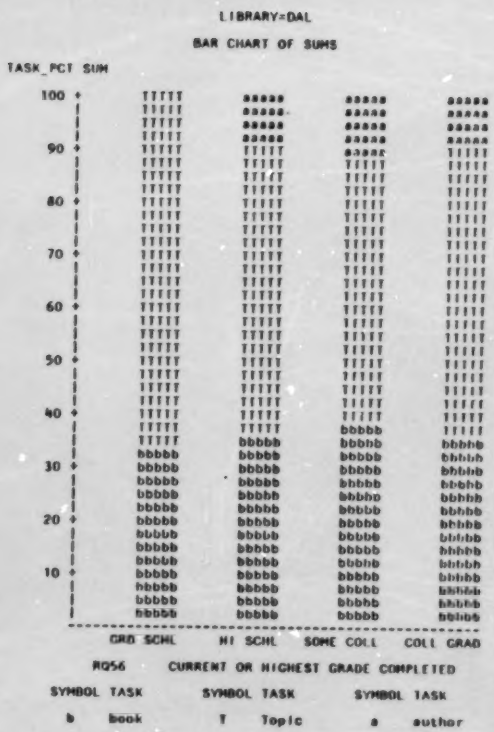
RQ55 SEX
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a auth


LIBRARY=DAL
BAR CHART OF SUMS
TASK_PCT SUM
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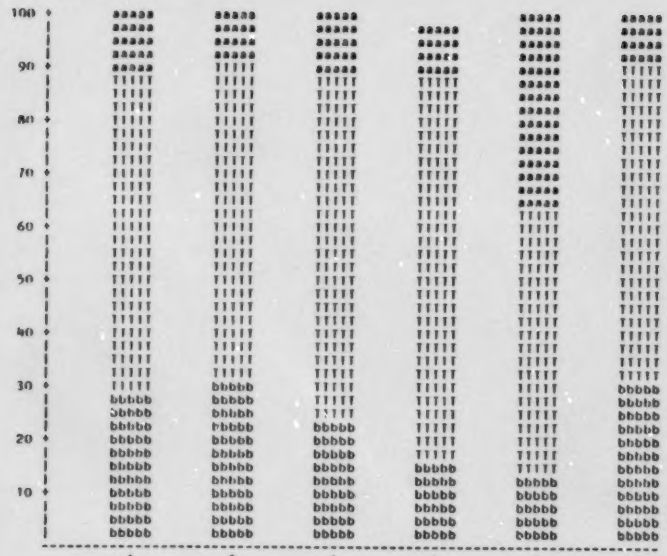
GRD SCHL
HI SCHL
SOME COLL
COLL GRAD
RQ56 CURRENT OR HIGHEST GRADE COMPLETED
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

LIBRARY=DLA

BAR CHART OF SUMS

TASK_PCT SUM



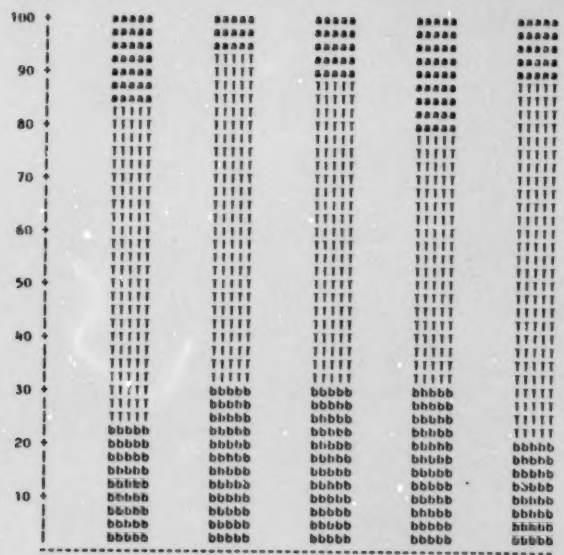
RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=DLA

BAR CHART OF SUMS

TASK_PCT SUM



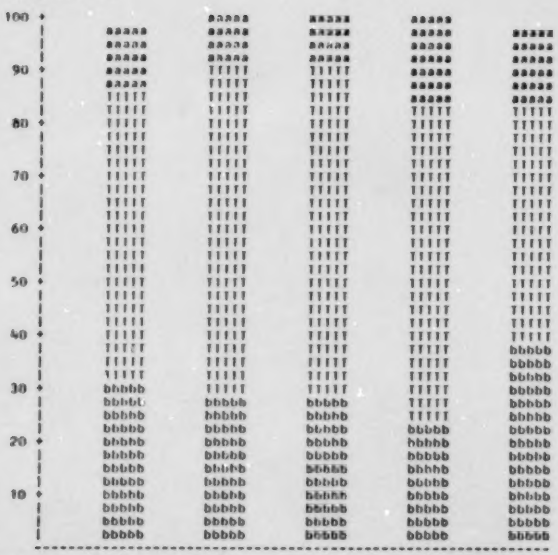
RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=DLA

BAR CHART OF SUMS

TASK_PCT SUM



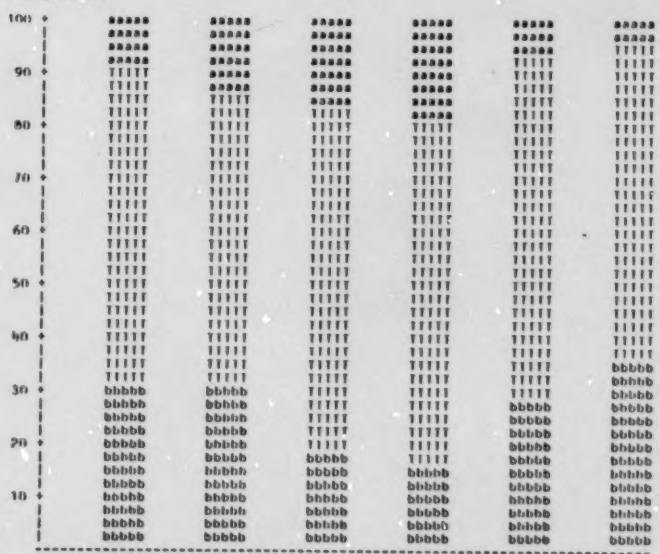
RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=DLA

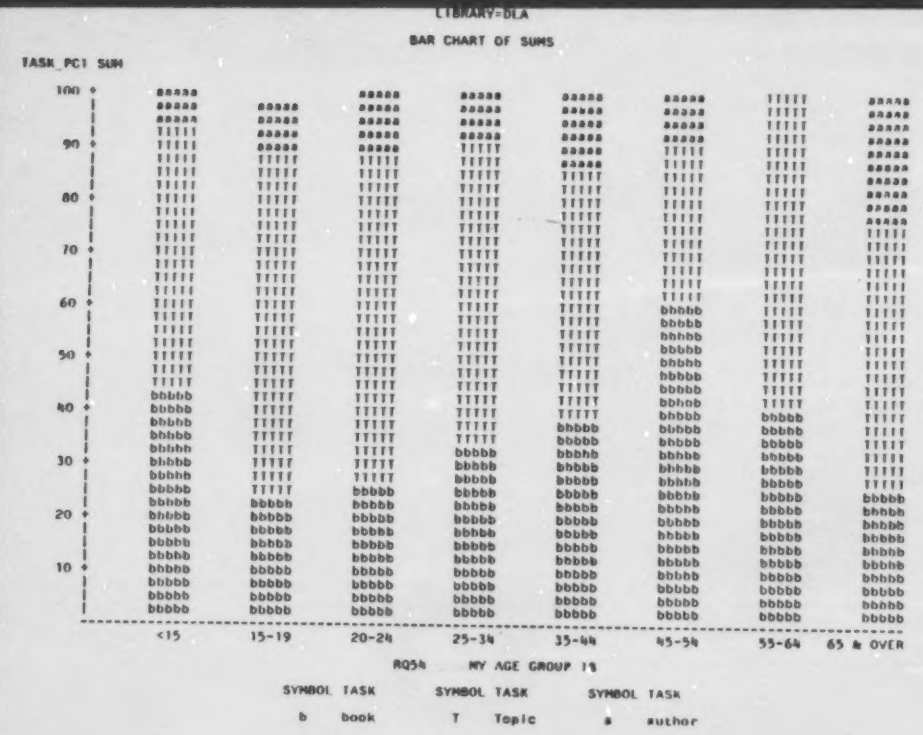
BAR CHART OF SUMS

TASK_PCT SUM



RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author


LIBRARY=DLA
BAR CHART OF SUMS
TASK_PCT SUM
100
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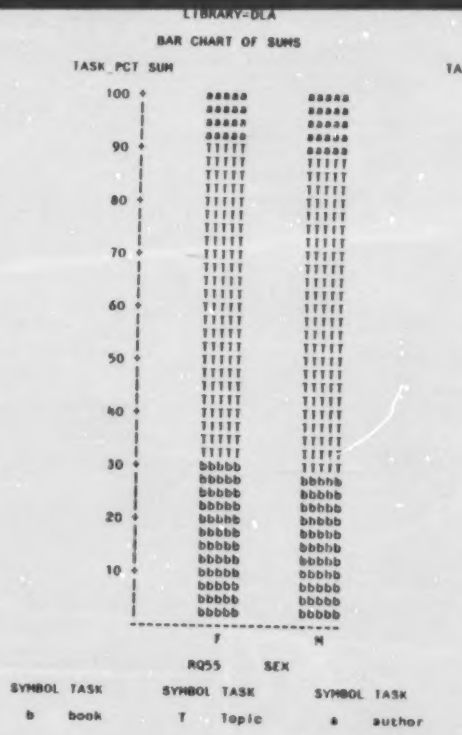
20-24
25-34
35-44
45-54
55-64
65 & OVER
RQ54 MY AGE GROUP IS
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=DLA
BAR CHART OF SUMS
TASK_PCT SUM
100
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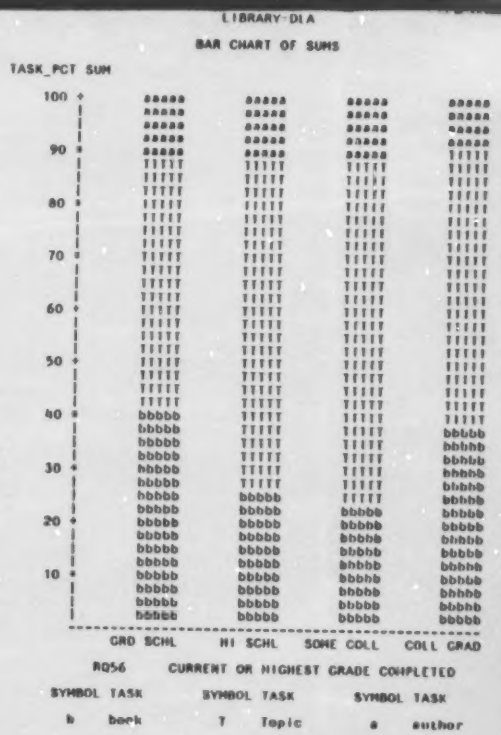
RQ55 SEX
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=DLA
BAR CHART OF SUMS
TASK_PCT SUM
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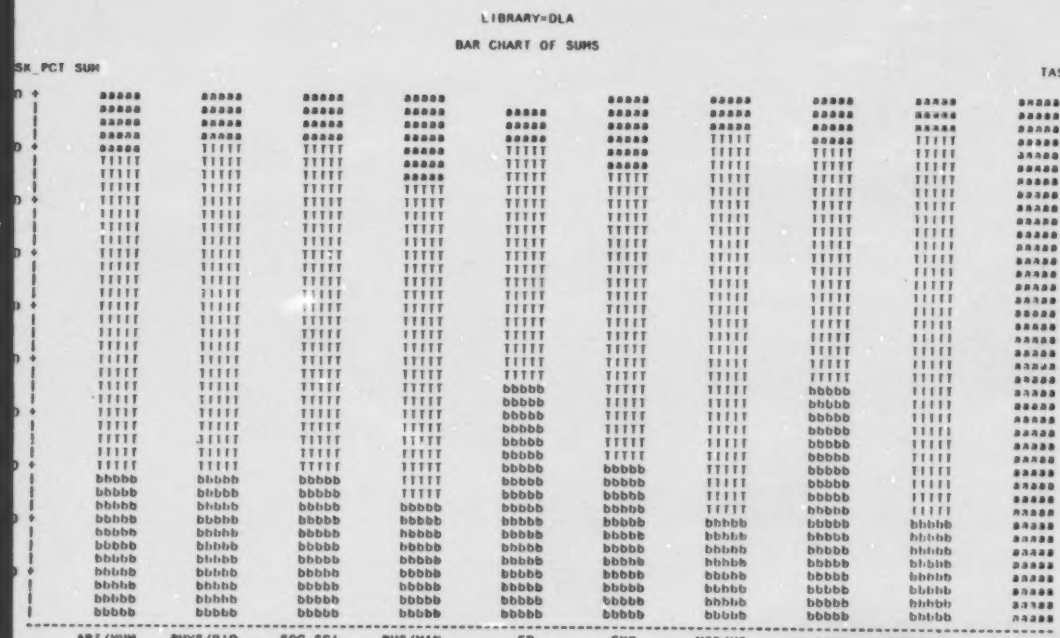
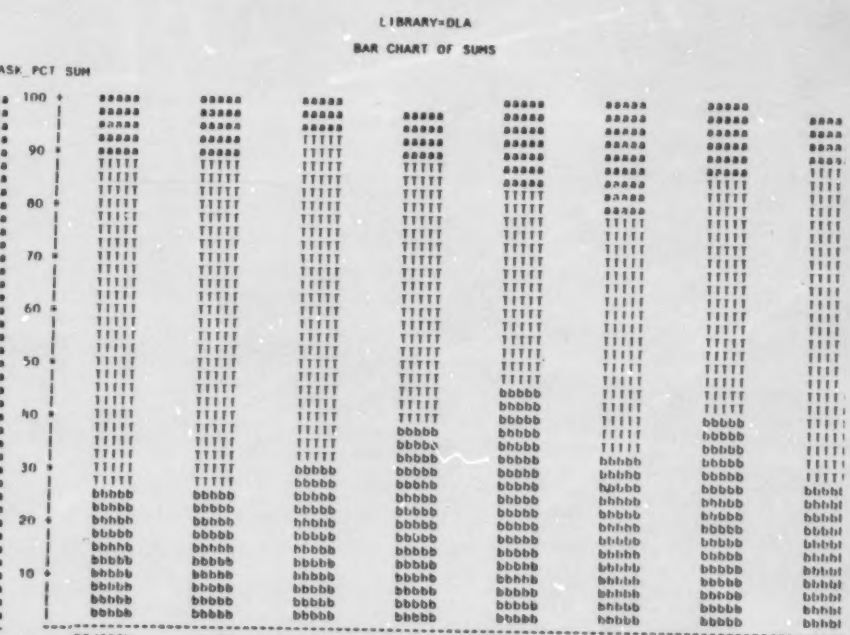
RQ56 CURRENT OR HIGHEST GRADE COMPLETED
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=DLA
BAR CHART OF SUMS
ART/HUM
PHYS/BIO
SOC SCI
BUS/MAN
ED
ENG
MED/HS
LAW
UNDCLRD
INTRDCPL
RQ57 MY ACADEMIC AREA IS
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=DLA
BAR CHART OF SUMS
TASK_PCT SUM
100
90
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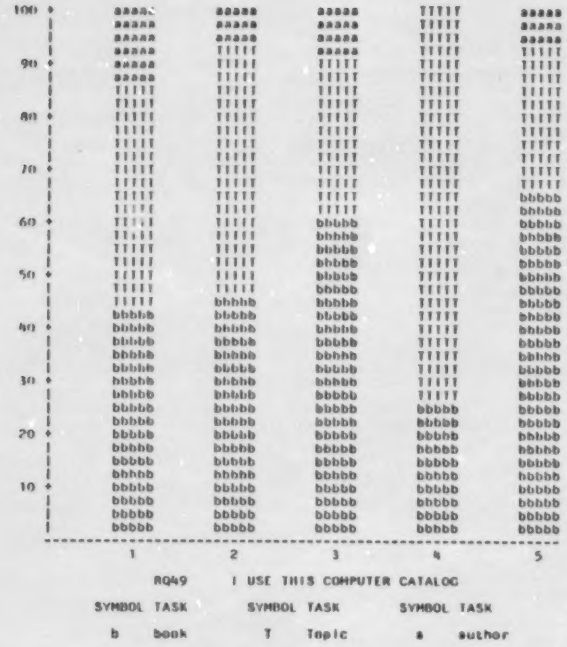
10
RS/SOPH
JR/SR
GRAD/NA
GRAD/PHD
GRAD/PROF
FACULTY
STAFF
OTHER
RQ59 PRESENT AFFILIATION
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

LIBRARY=EVA

BAR CHART OF SUMS

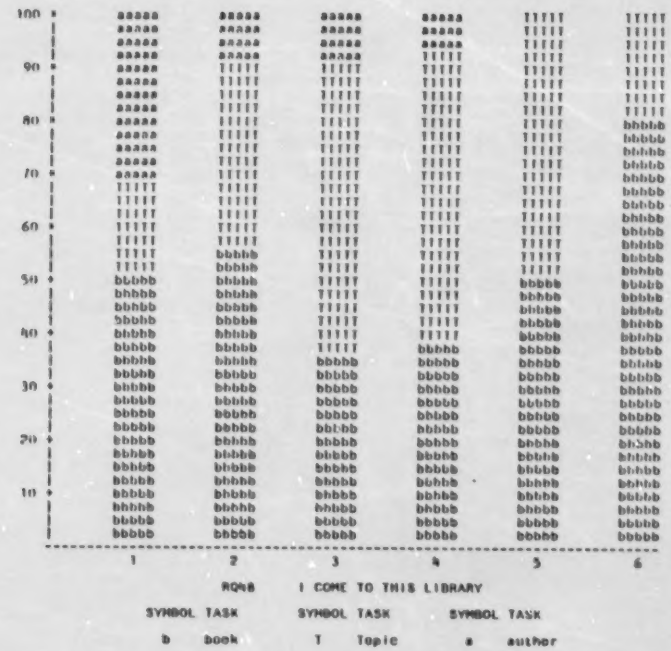
TASK_PCT SUM



LIBRARY=EVA

BAR CHART OF SUMS

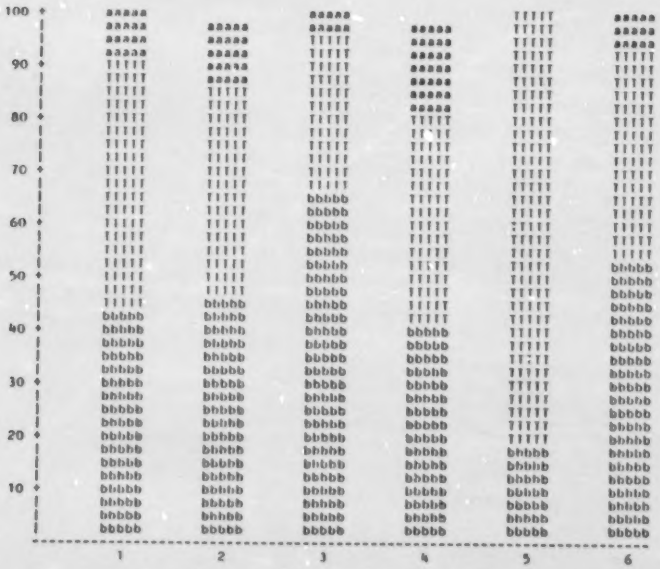
TASK_PCT SUM



LIBRARY=EVA

BAR CHART OF SUMS

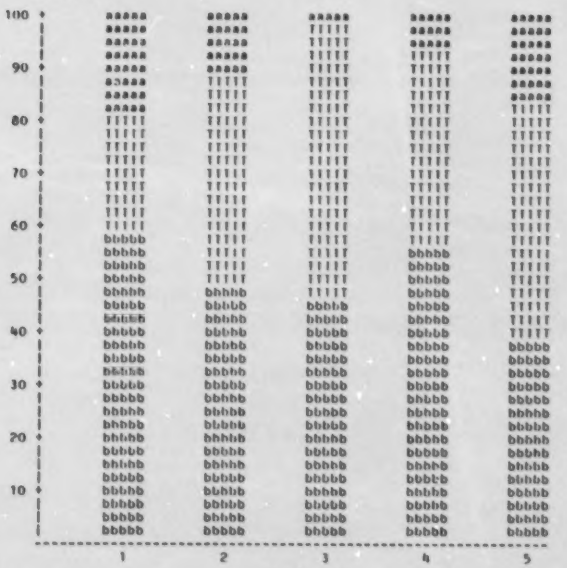
TASK_PCT SUM

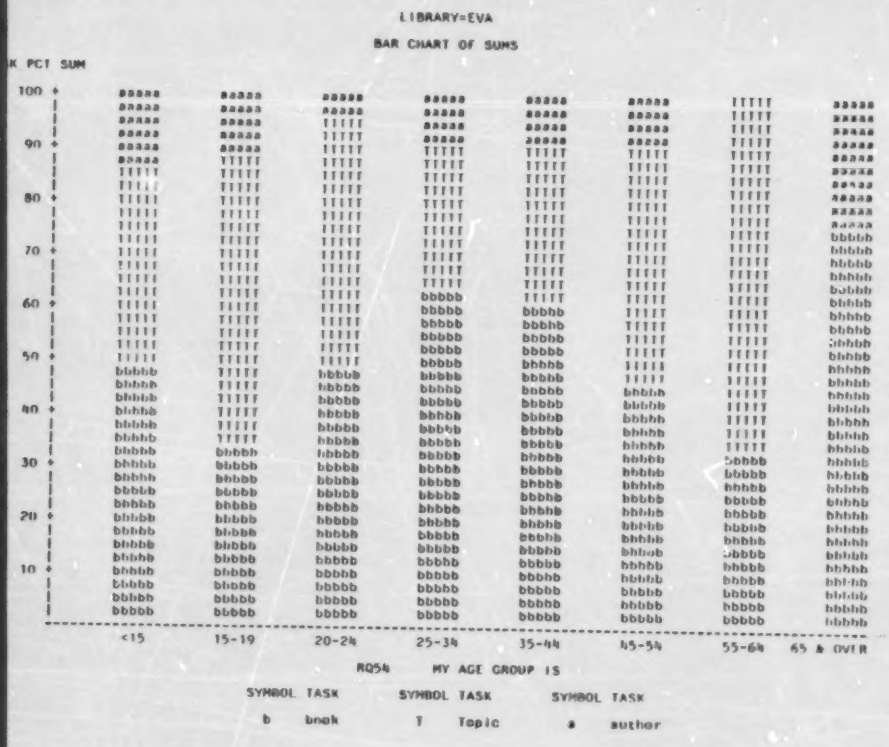


LIBRARY=EVA

BAR CHART OF SUMS

TASK_PCT SUM




LIBRARY=EVA
BAR CHART OF SUMS
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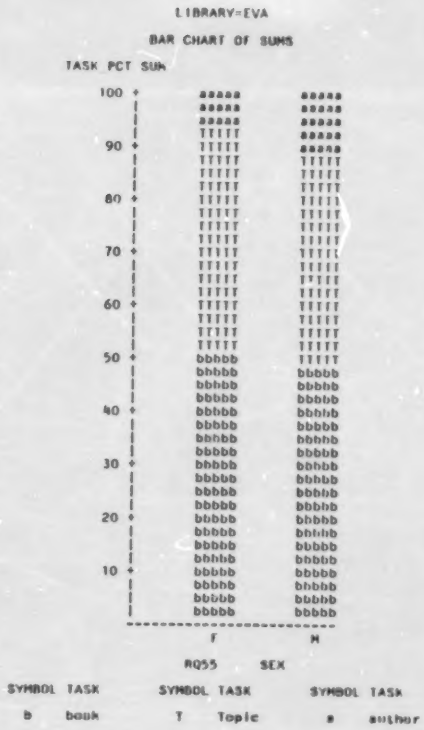
25-34
35-44
45-54
55-64
65 & OVER
RQ54 MY AGE GROUP IS
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=EVA
BAR CHART OF SUMS
TASK PCT SUM
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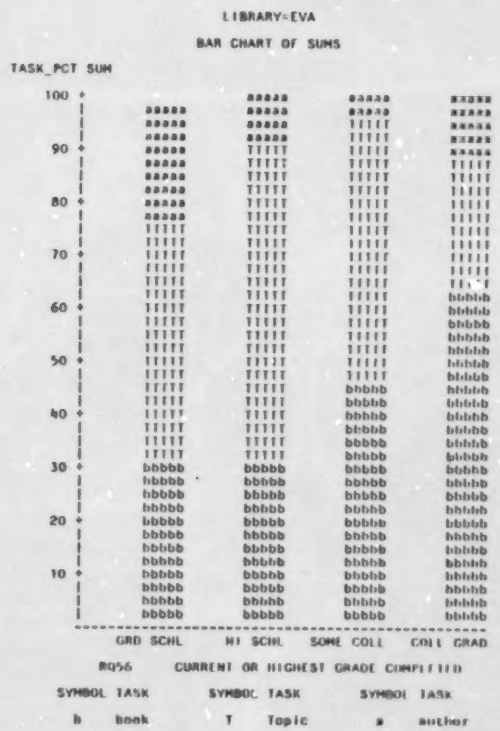
10
F
M
RQ55 SEX
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=EVA
BAR CHART OF SUMS
TASK_PCT SUM
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GRD SCHL
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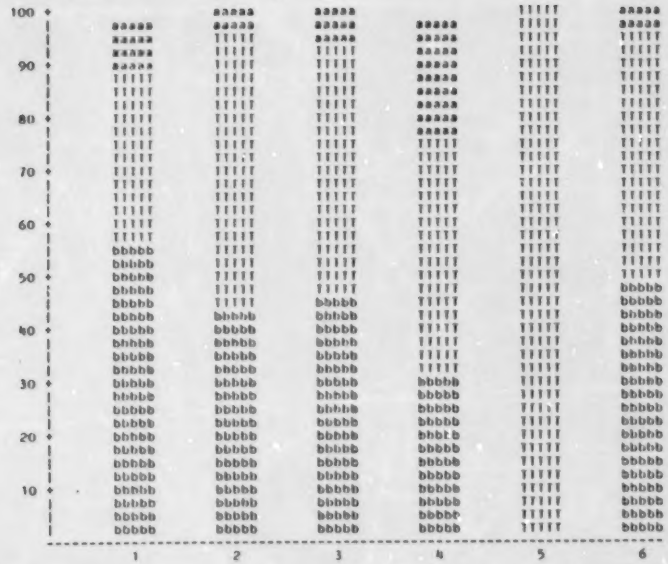
SOME COLL
COLL GRAD
RQ56 CURRENT OR HIGHEST GRADE COMPLETED
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

LIBRARY=LOW

BAR CHART OF SUMS

TASK_PCT SUM



RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK
b	book

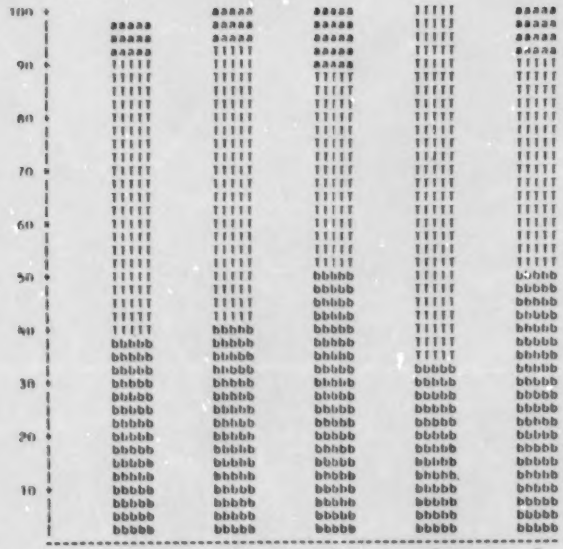
SYMBOL	TASK
T	Topic

SYMBOL	TASK
a	author

LIBRARY=LOW

BAR CHART OF SUMS

TASK_PCT SUM



RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK
b	book

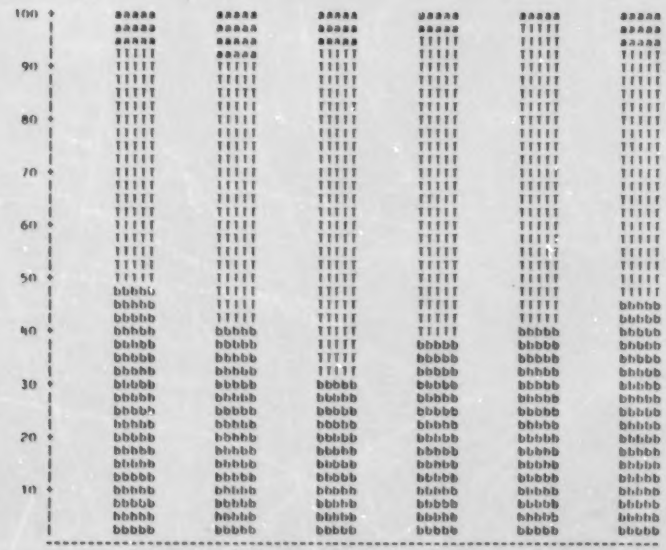
SYMBOL	TASK
T	Topic

SYMBOL	TASK
a	author

LIBRARY=LOW

BAR CHART OF SUMS

TASK_PCT SUM

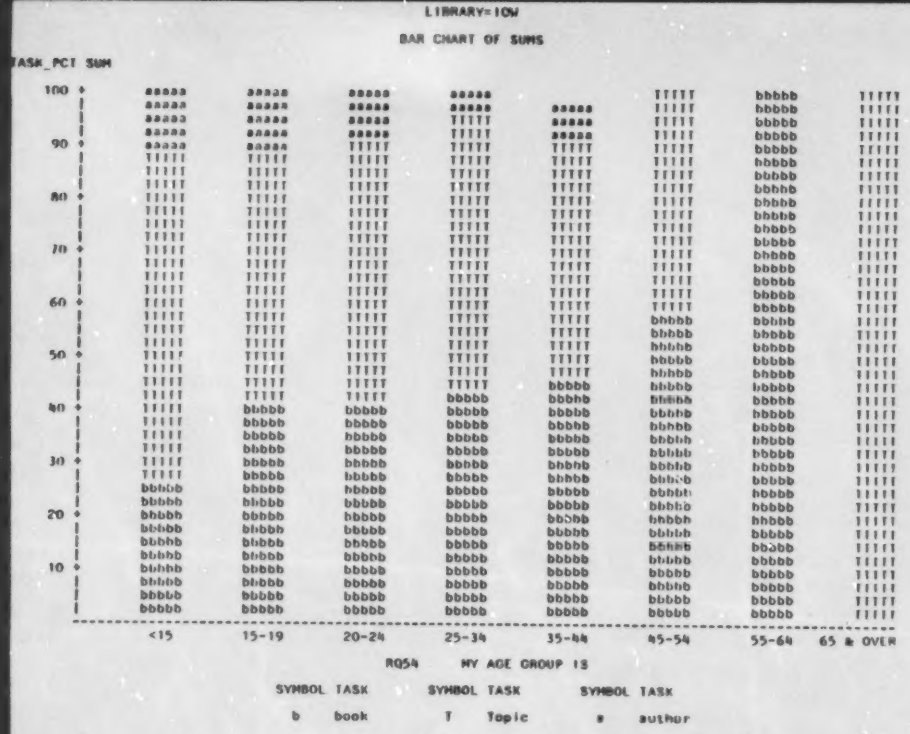


RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK
b	book

SYMBOL	TASK
T	Topic

SYMBOL	TASK
a	author


LIBRARY=IOW
BAR CHART OF SUMS
TASK_PCT SUM
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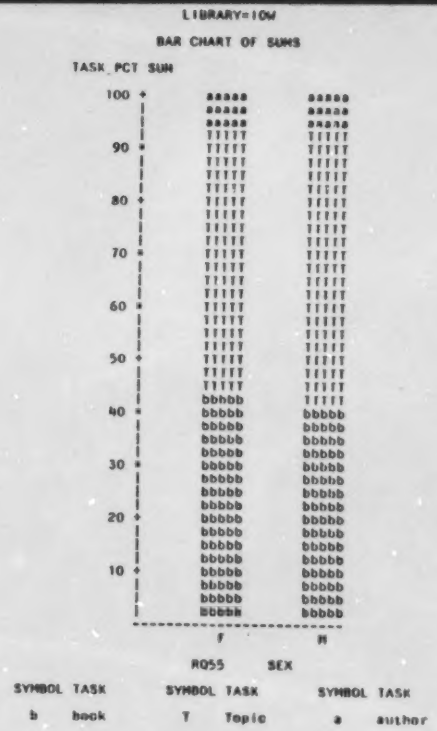
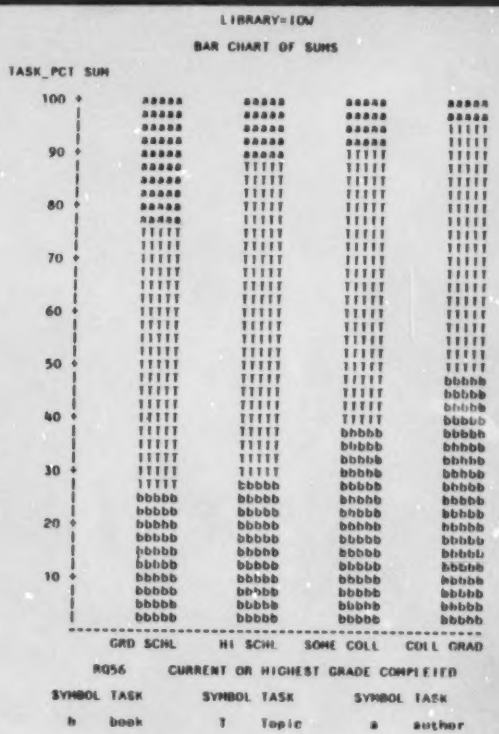
RQ54 MY AGE GROUP IS
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

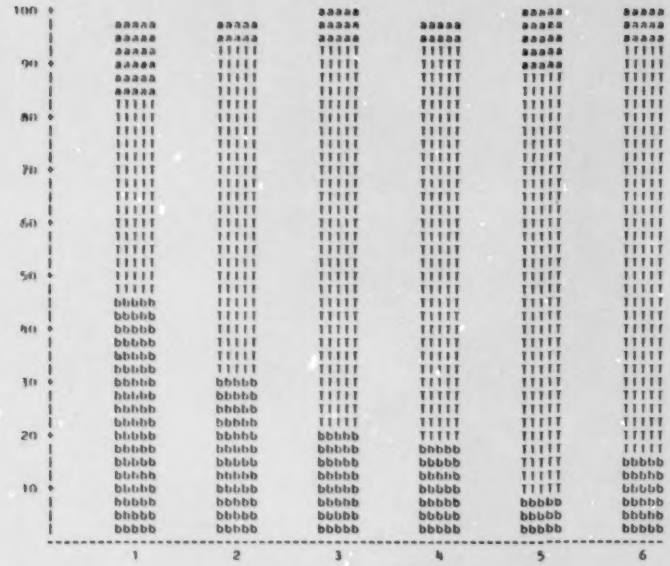

LIBRARY=IOW
BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
70
60
50
40
30
20
10
F
M
RQ55 SEX
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=IOW
BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
70
60
50
40
30
20
10
GRD SCHL
HI SCHL
SOME COLL
COLL GRAD
RQ56 CURRENT OR HIGHEST GRADE COMPLETED
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

LIBRARY=LOC

BAR CHART OF SUMS

TASK_PCT SUM



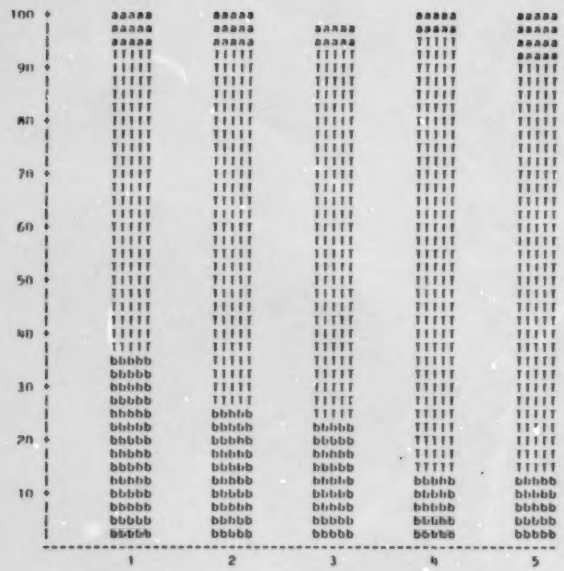
RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=LOC

BAR CHART OF SUMS

TASK_PCT SUM



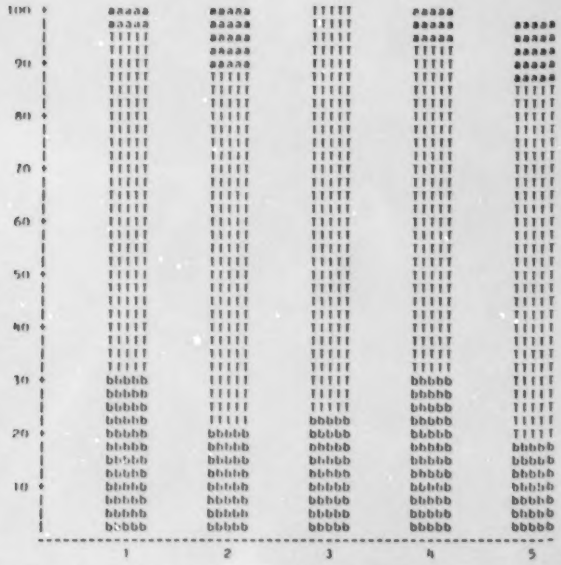
RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=LOC

BAR CHART OF SUMS

TASK_PCT SUM



RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

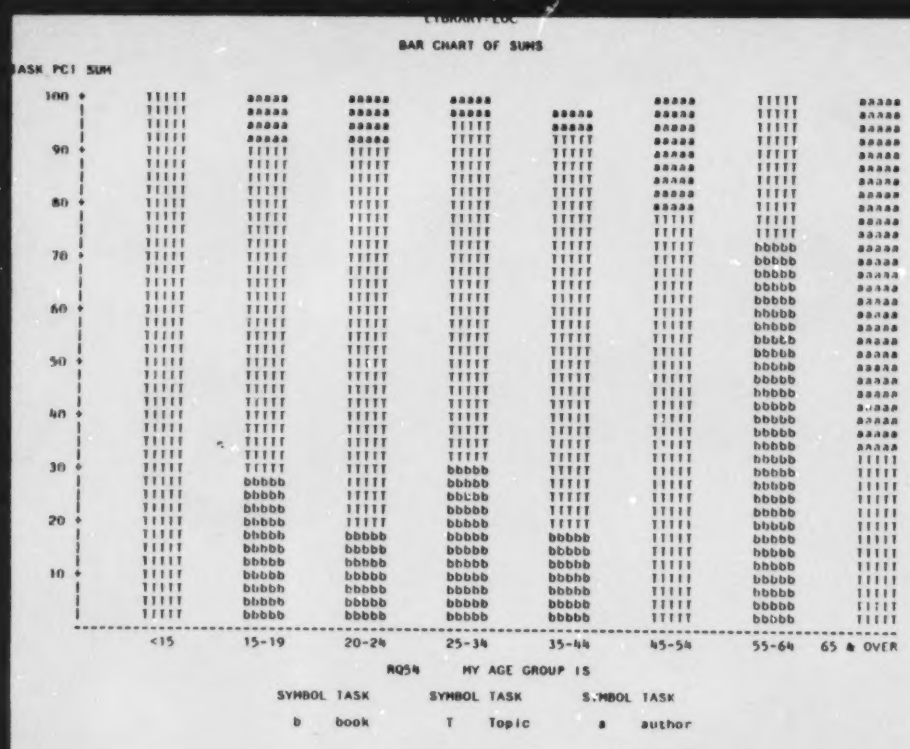
LIBRARY=LOC

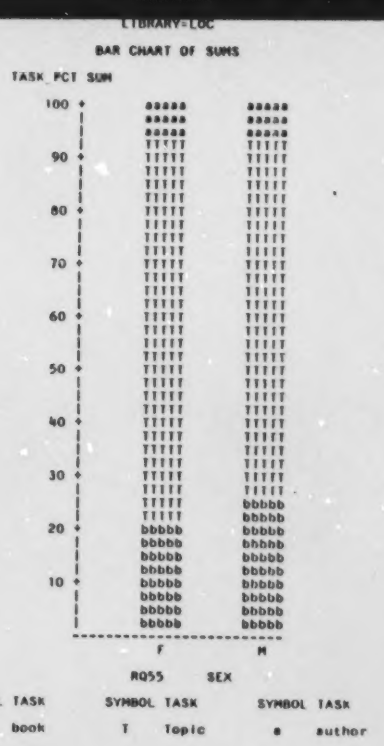
BAR CHART OF SUMS

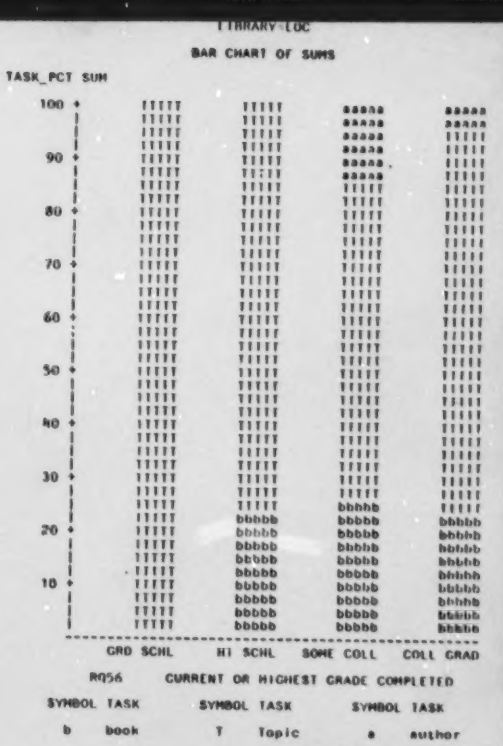
TASK_PCT SUM

RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

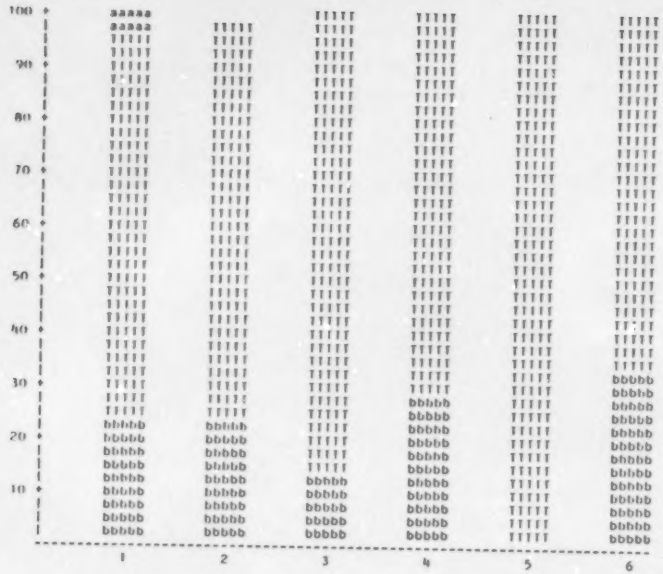

LIBRARY=LOC
BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
70
60
50
40
30
20
10
<15
15-19
20-24
25-34
35-44
45-54
55-64
65 & OVER
RQ54 MY AGE GROUP IS
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=LOC
BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
70
60
50
40
30
20
10
F
M
RQ55 SEX
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=LOC
BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
70
60
50
40
30
20
10
GRD SCHL
HI SCHL
SOME COLL
COLL GRAD
RQ56 CURRENT OR HIGHEST GRADE COMPLETED
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

BAR CHART OF SUMS

TASK_PCT SUM

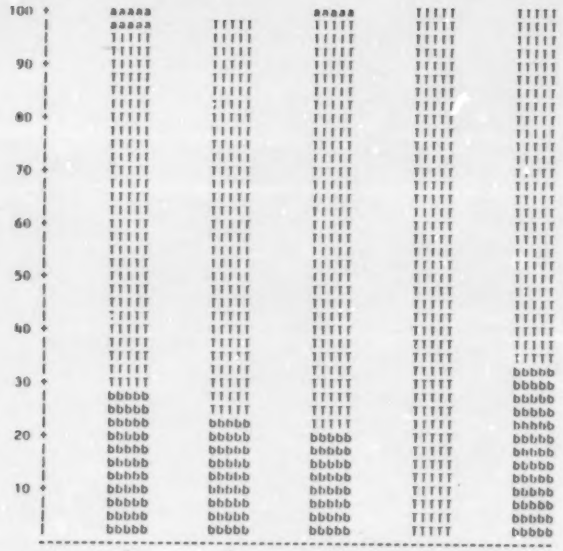


RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

BAR CHART OF SUMS

TASK_PCT SUM



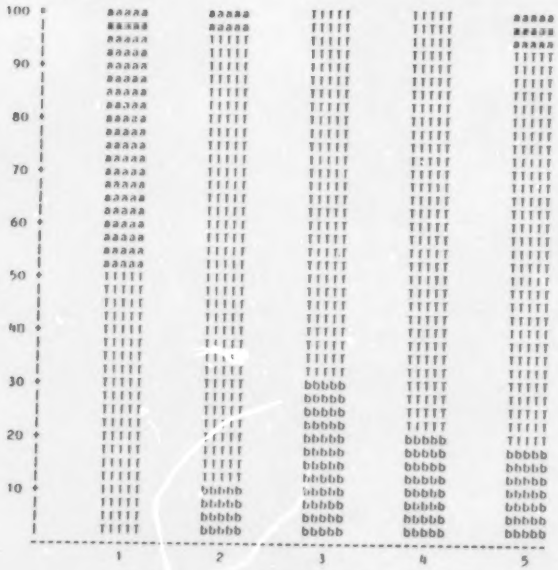
RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY-MAN

BAR CHART OF SUMS

TASK_PCT SUM



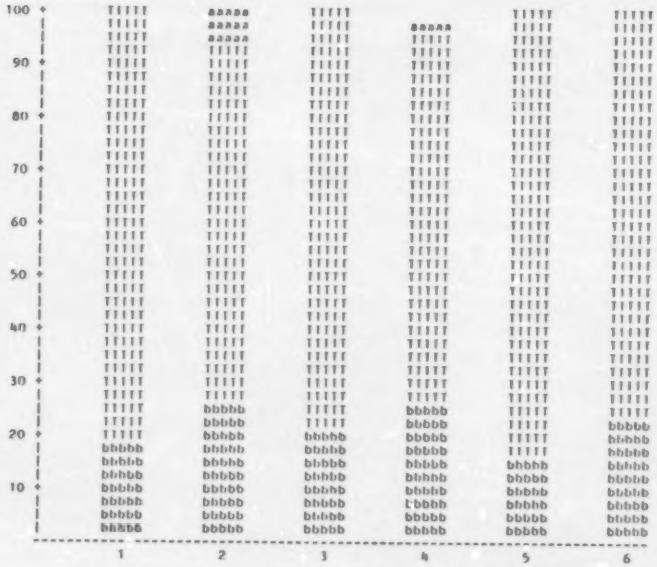
RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY-MAN

BAR CHART OF SUMS

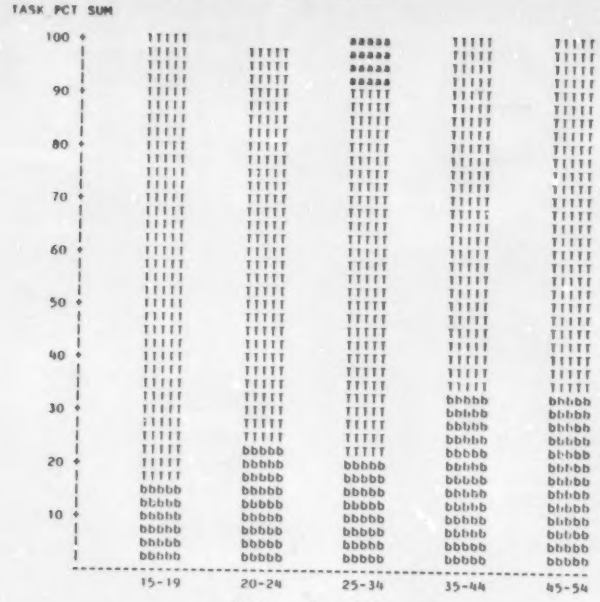
TASK_PCT SUM



RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

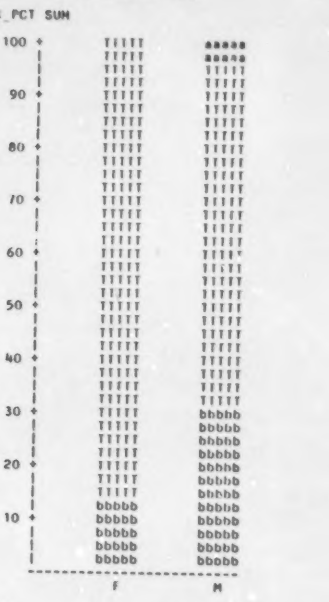
BAR CHART OF SUMS



RQ54 MY AGE GROUP IS

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

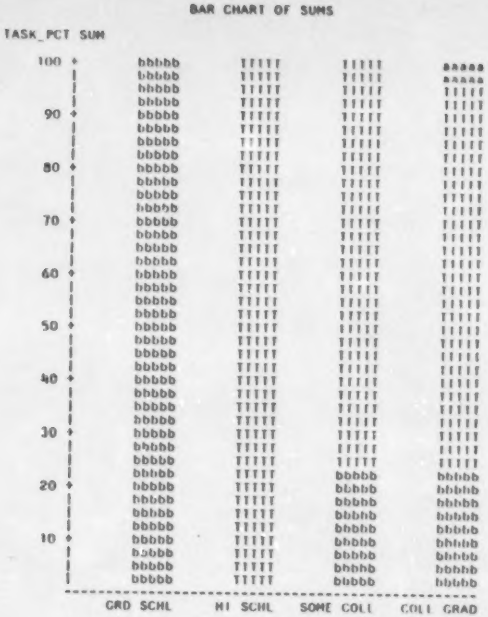
BAR CHART OF SUMS



RQ55 SEX

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

BAR CHART OF SUMS

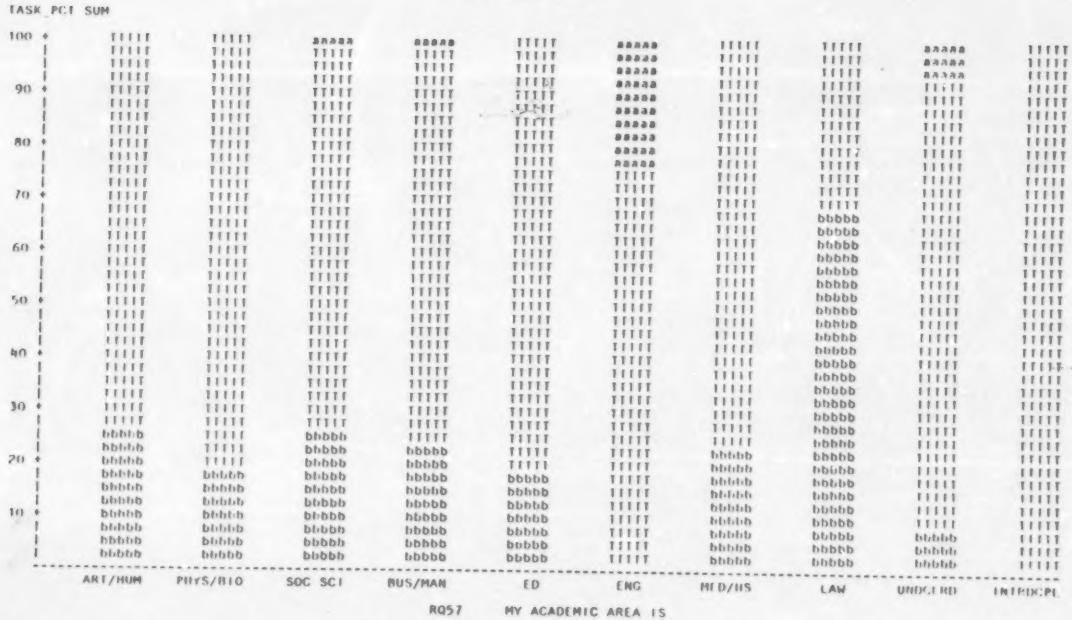


RQ56 CURRENT OR HIGHEST GRADE COMPLETED

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

LIBRARY=MAN

BAR CHART OF SUMS

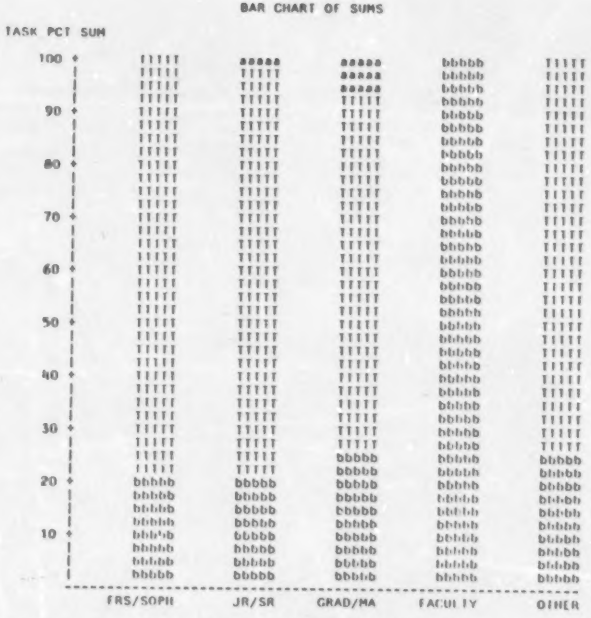


RQ57 MY ACADEMIC AREA IS

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

LIBRARY=MAN

BAR CHART OF SUMS

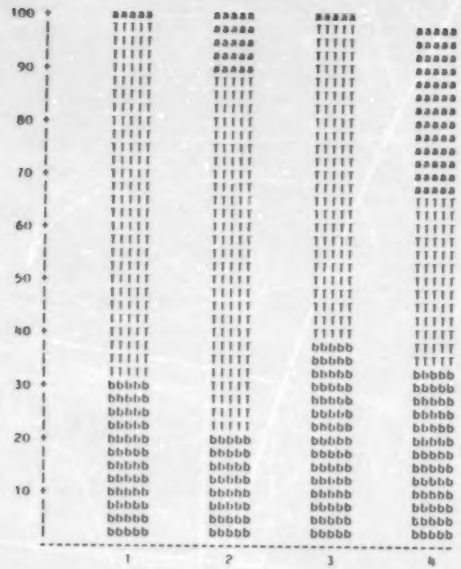


RQ59 PRESENT AFFILIATION

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

BAR CHART OF SUMS

TASK_PCT SUM



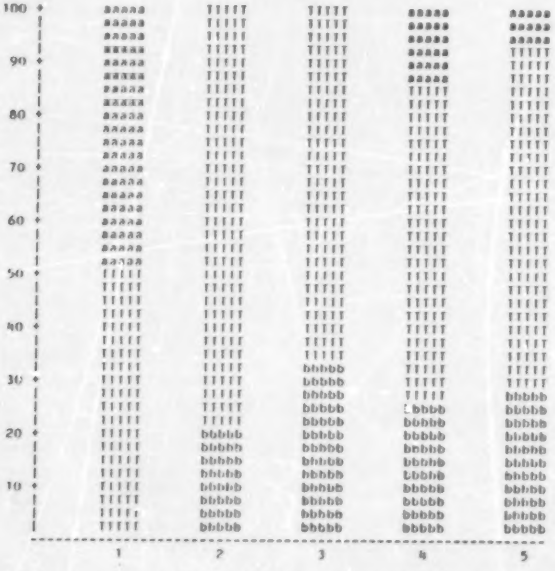
RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	t	topic	a	author

LIBRARY=MIS,WVA

BAR CHART OF SUMS

TASK_PCT SUM

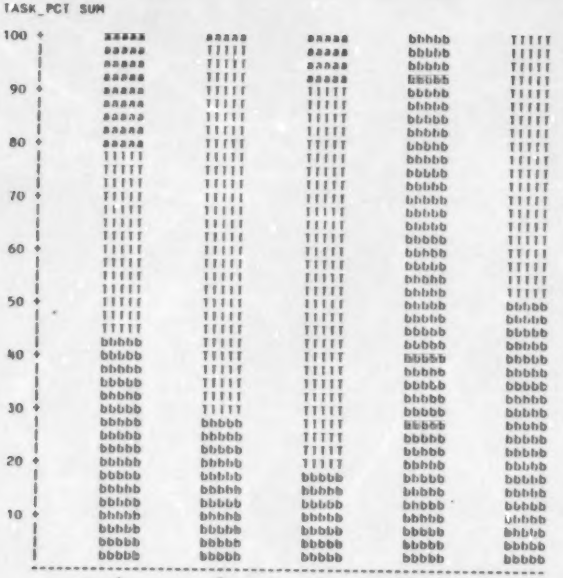


RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	t	topic	a	author

BAR CHART OF SUMS

TASK_PCT SUM



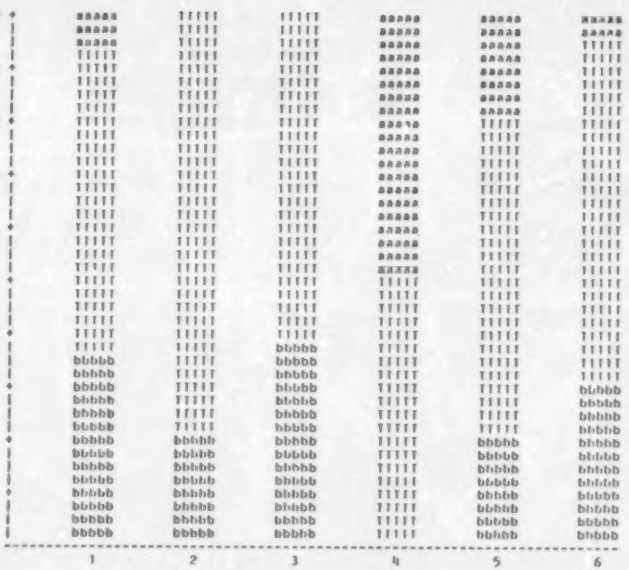
RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	t	topic	a	author

LIBRARY=MIS,WVA

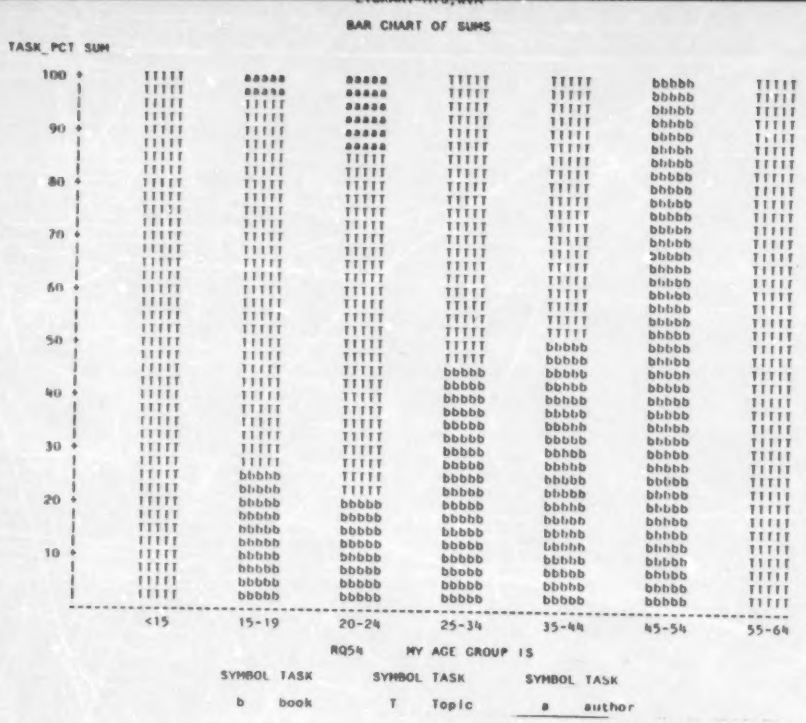
BAR CHART OF SUMS

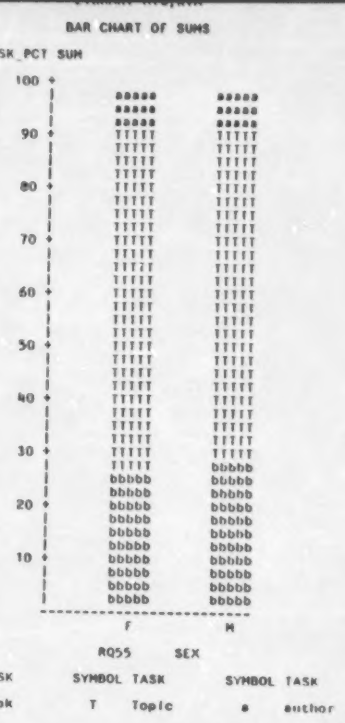
TASK_PCT SUM

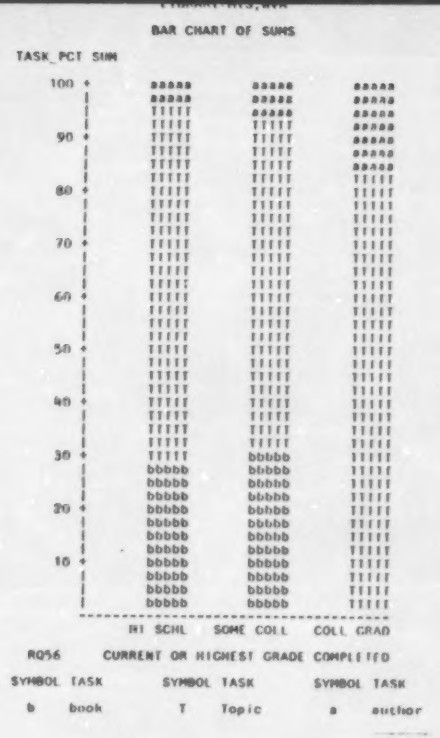


RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	t	topic	a	author


BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
70
60
50
40
30
20
10
<15
15-19
20-24
25-34
35-44
45-54
55-64
RQ54 MY AGE GROUP IS
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
70
60
50
40
30
20
10
F
M
RQ55 SEX
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


BAR CHART OF SUMS
TASK_PCT SUM
100
90
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70
60
50
40
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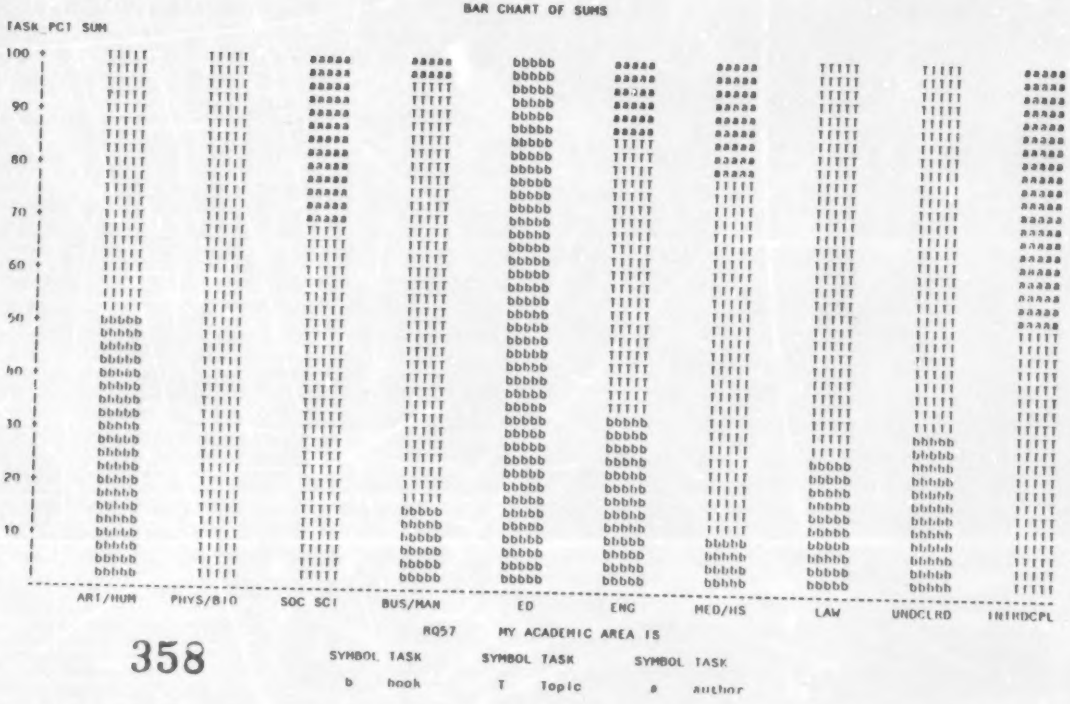
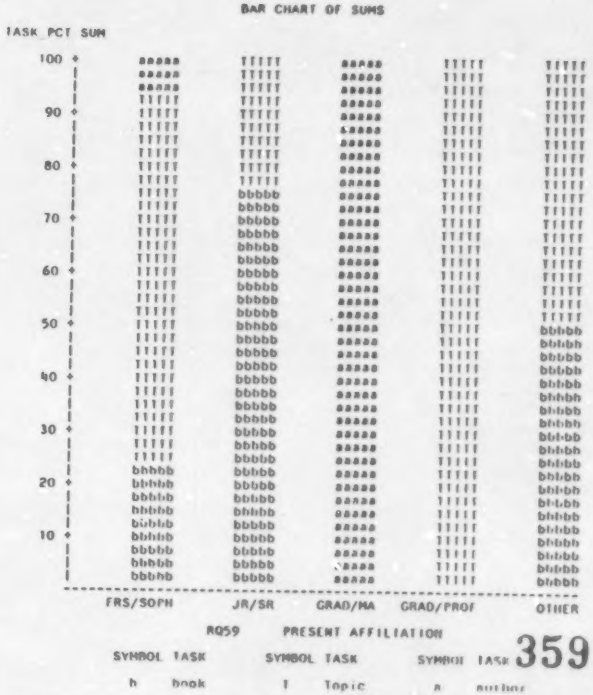
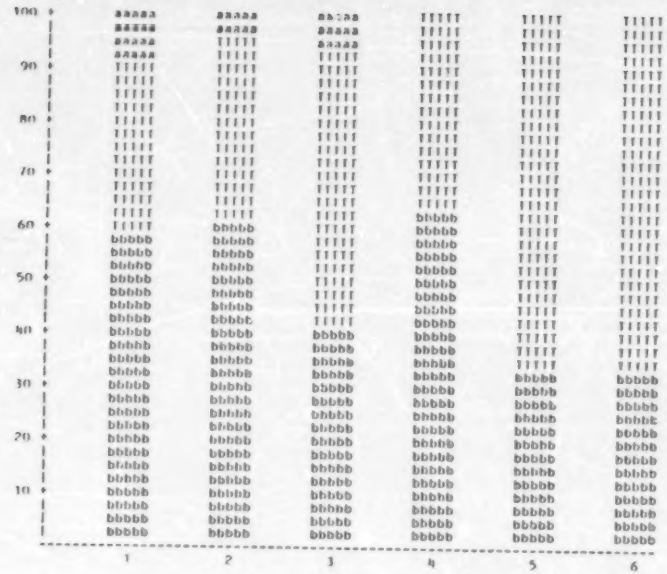
HI SCHL
SOME COLL
COLL GRAD
RQ56 CURRENT OR HIGHEST GRADE COMPLETED
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=MIS,WVA
BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
70
60
50
40
30
20
10
ART/HUM
PHYS/BIO
SOC SCI
BUS/MAN
ED
ENG
MED/HS
LAW
UNDCLRD
INTRDCPL
RQ57 MY ACADEMIC AREA IS
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author


LIBRARY=MIS,WVA
BAR CHART OF SUMS
TASK_PCT SUM
100
90
80
70
60
50
40
30
20
10
FRS/SOPH
JR/SR
GRAD/MA
GRAD/PROF
OTHER
RQ59 PRESENT AFFILIATION
SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

BAR CHART OF SUMS

TASK_PCT SUM



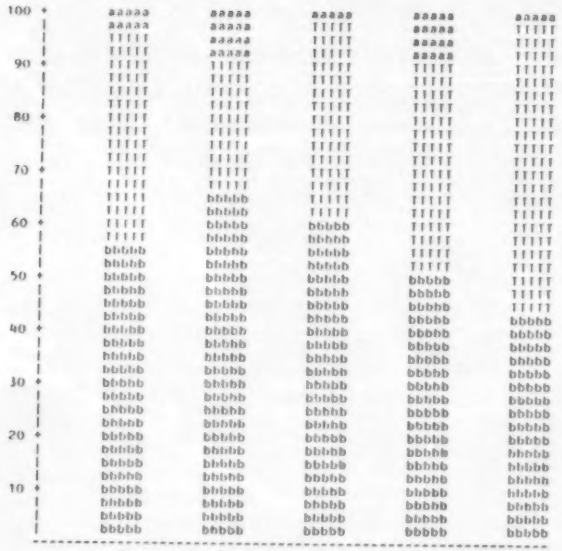
RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

I LIBRARY-NOR

BAR CHART OF SUMS

TASK_PCT SUM



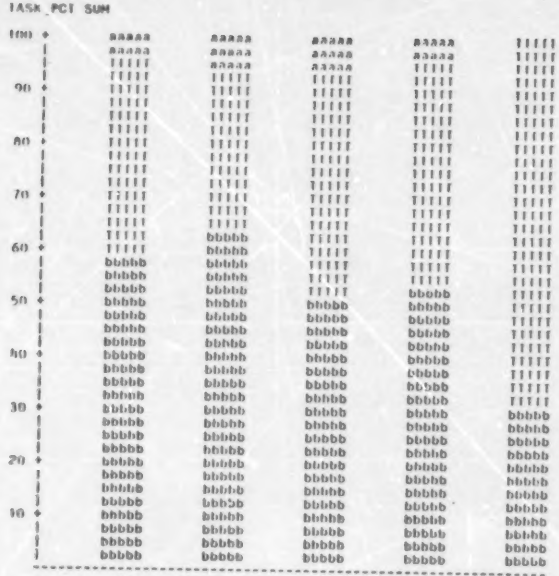
RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

I LIBRARY-NOR

BAR CHART OF SUMS

TASK_PCT SUM



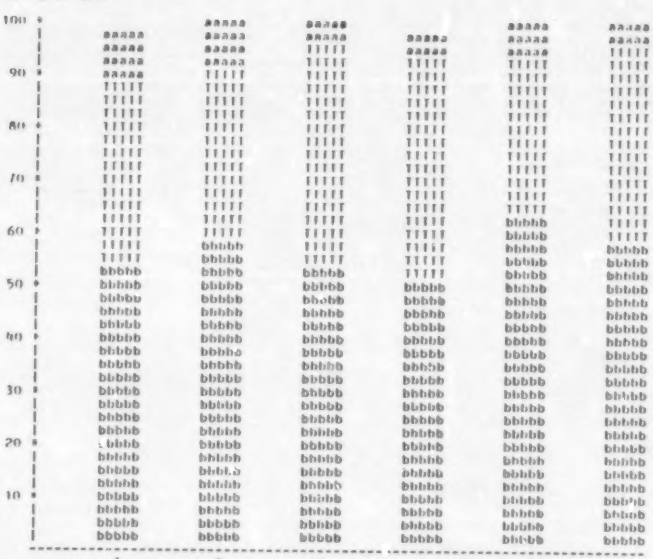
RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

I LIBRARY-NOR

BAR CHART OF SUMS

TASK_PCT SUM

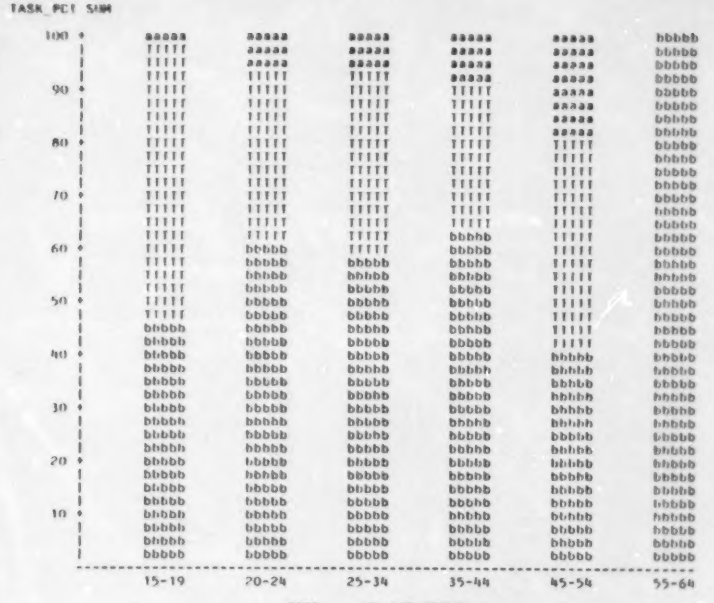


RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=NOR

BAR CHART OF SUMS

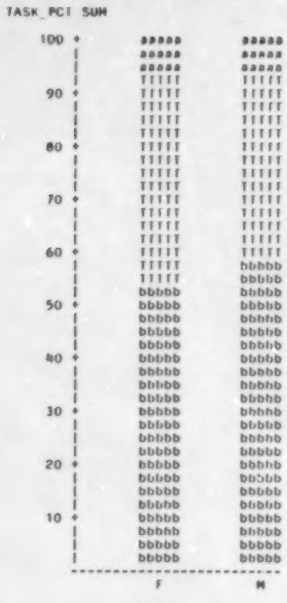


RQ54 MY AGE GROUP IS

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=NOR

BAR CHART OF SUMS

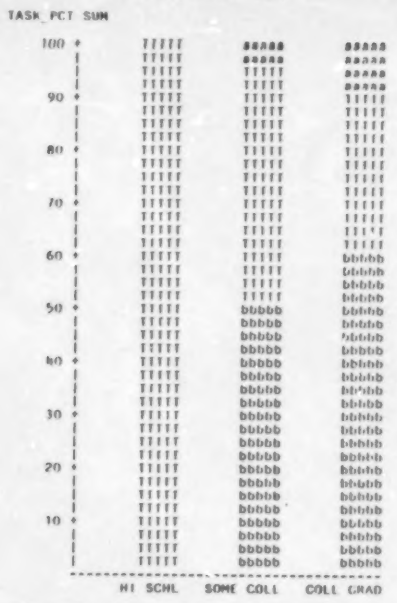


RQ55 SEX

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=NOR

BAR CHART OF SUMS

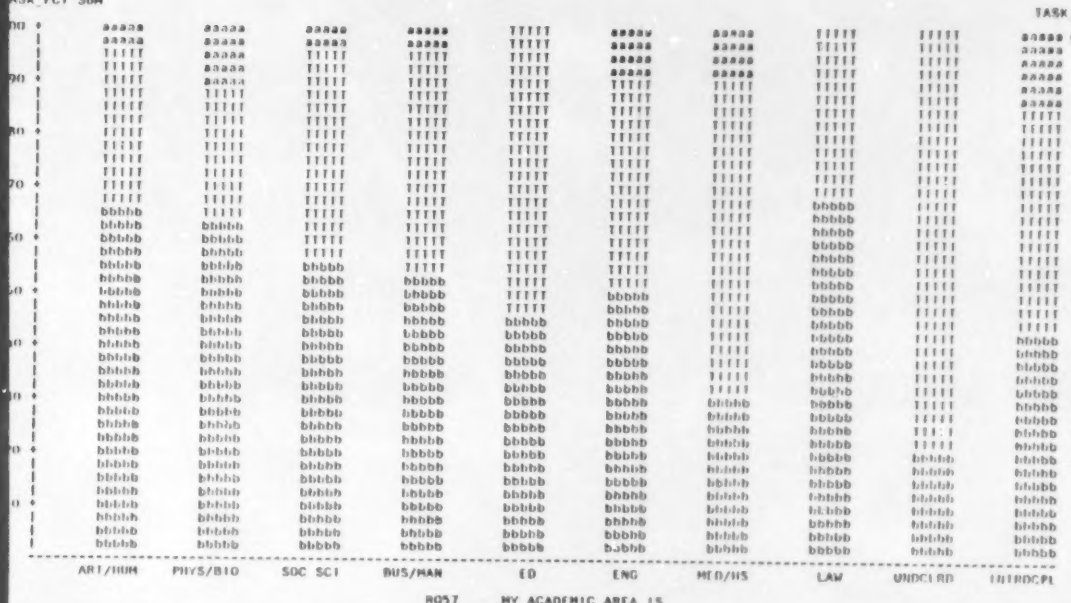


RQ56 CURRENT OR HIGHEST GRADE COMPLETED

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=NOR

BAR CHART OF SUMS

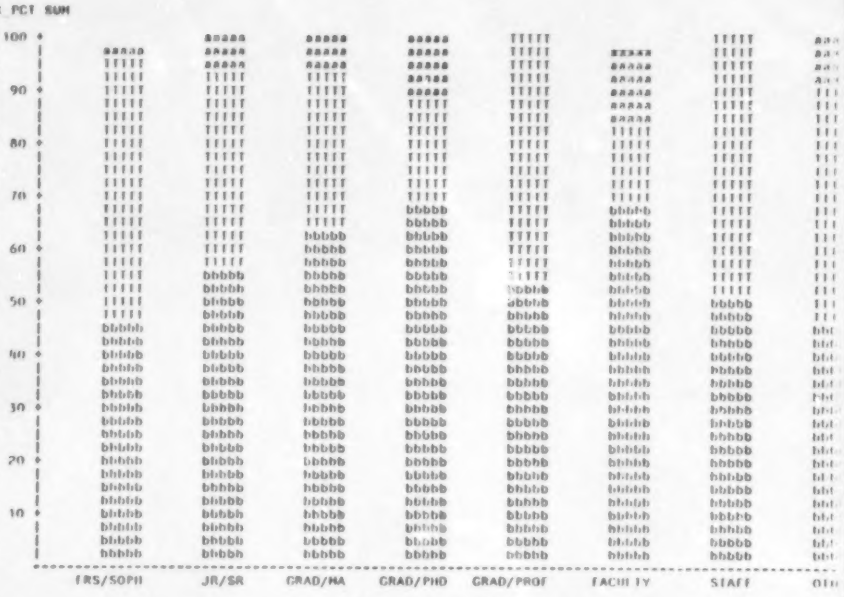


RQ57 MY ACADEMIC AREA IS

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=NOR

BAR CHART OF SUMS



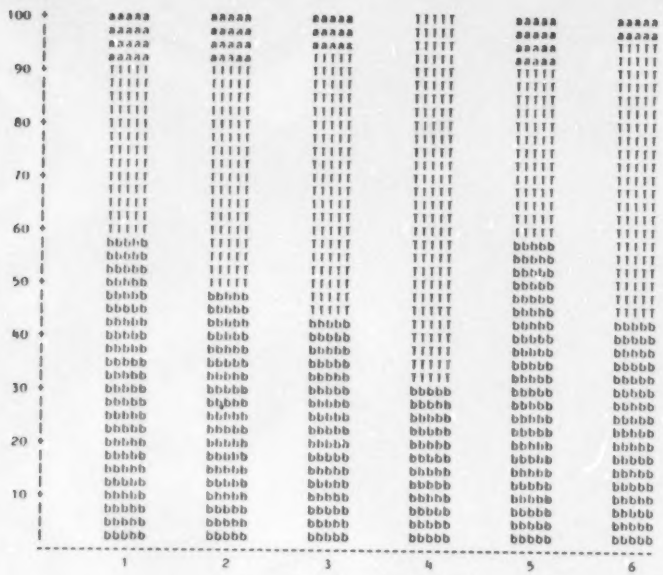
RQ59 PRESENT AFFILIATION

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=OH1

BAR CHART OF SUMS

TASK_PCT SUM



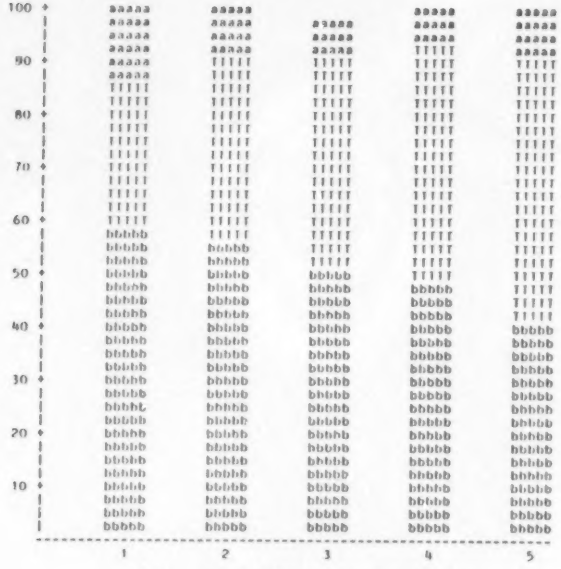
RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=OH1

BAR CHART OF SUMS

TASK_PCT SUM



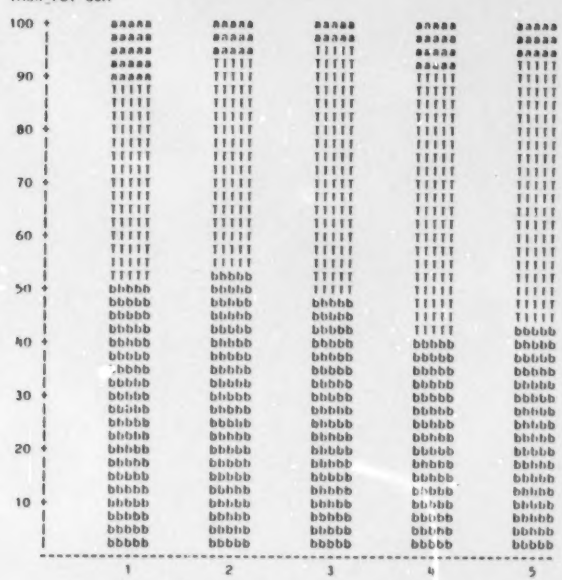
RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY OH1

BAR CHART OF SUMS

TASK_PCT SUM



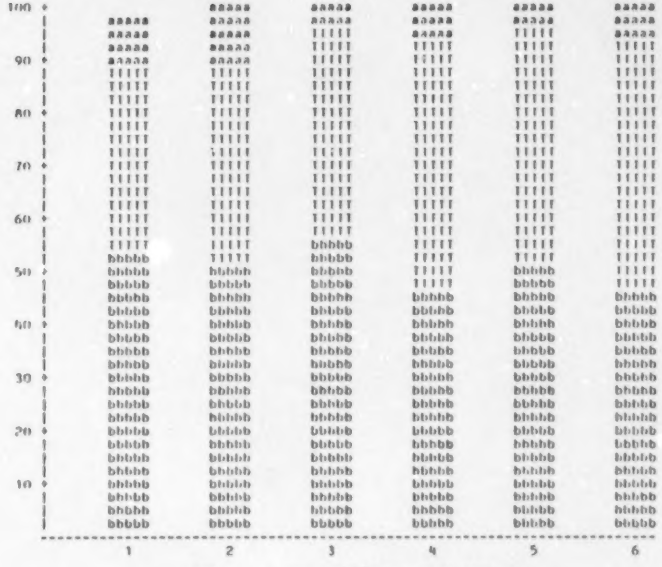
RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=OH1

BAR CHART OF SUMS

TASK_PCT SUM

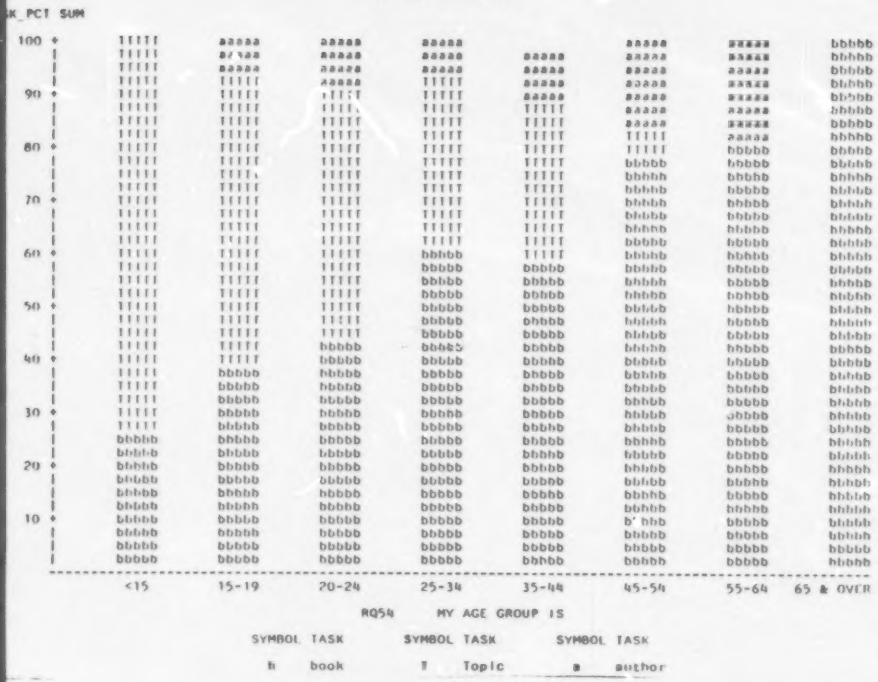


RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=OHI

BAR CHART OF SUMS

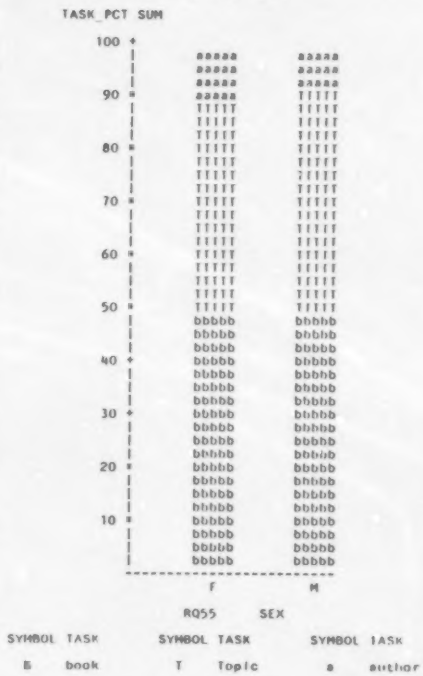


RQ54 MY AGE GROUP IS

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

LIBRARY=OHI

BAR CHART OF SUMS

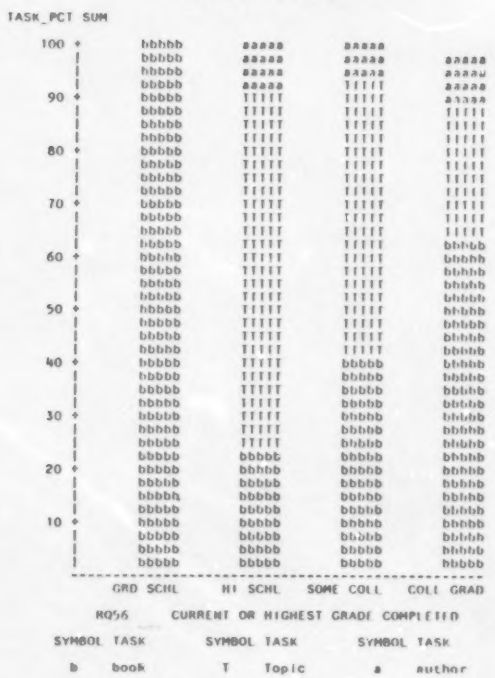


RQ55 SEX

SYMBOL TASK B book
SYMBOL TASK T Topic
SYMBOL TASK a author

LIBRARY=OHI

BAR CHART OF SUMS

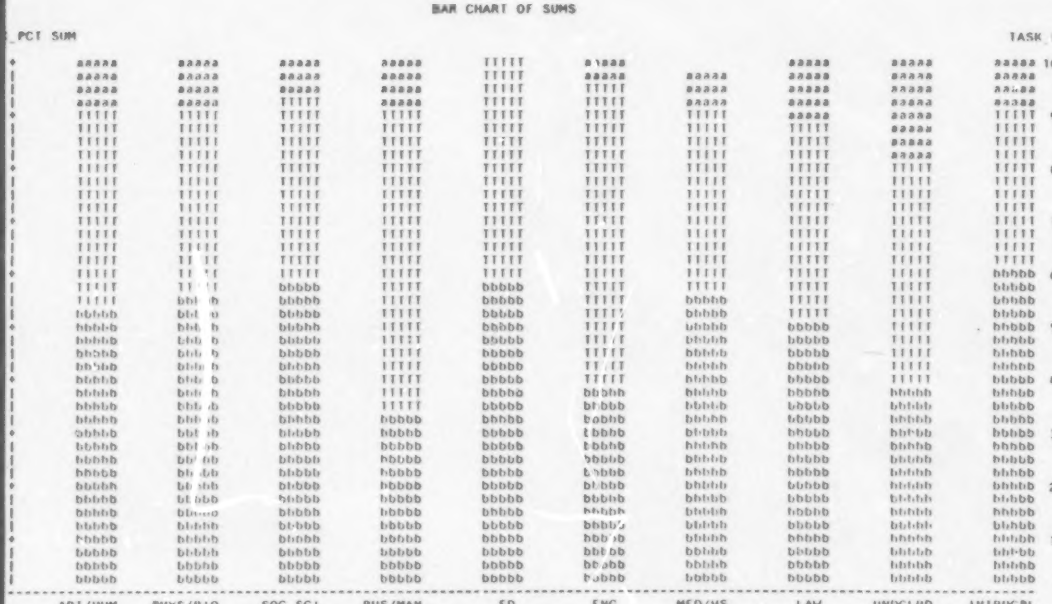


RQ56 CURRENT OR HIGHEST GRADE COMPLETED

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

LIBRARY=OHI

BAR CHART OF SUMS

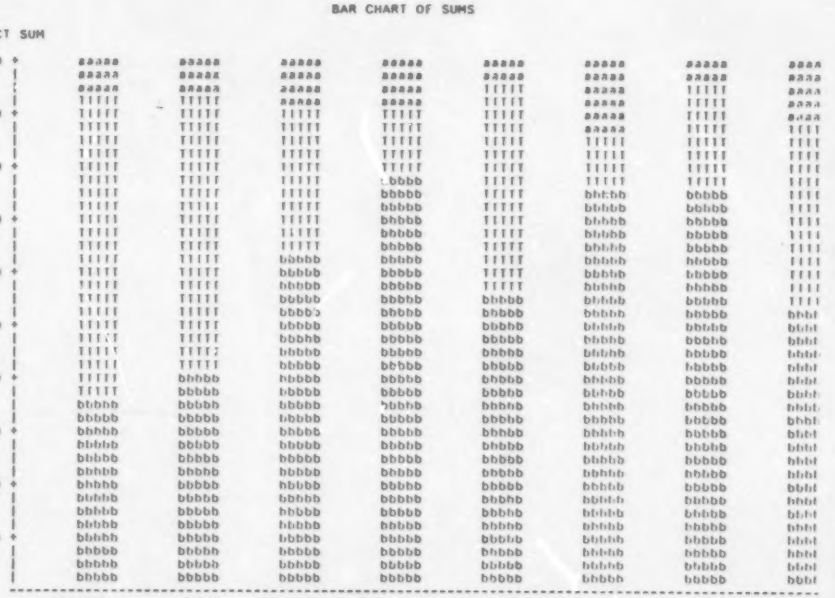


RQ57 MY ACADEMIC AREA IS

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

LIBRARY=OHI

BAR CHART OF SUMS

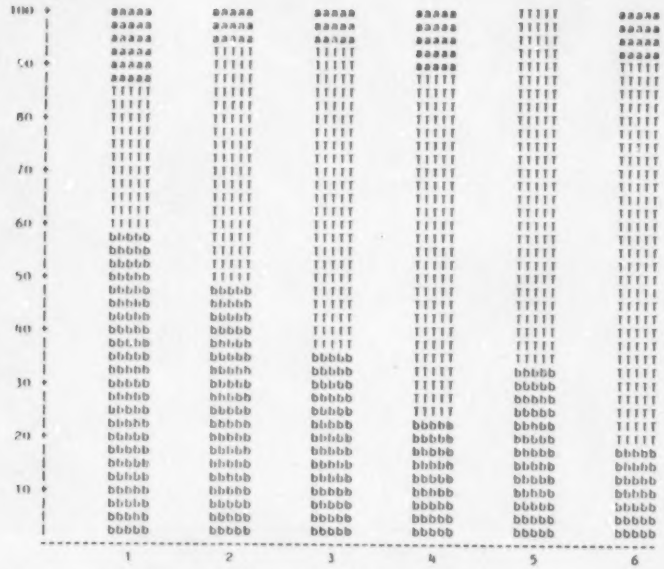


RQ59 PRESENT AFFILIATION

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

BAR CHART OF SUMS

TASK_PCT SUM



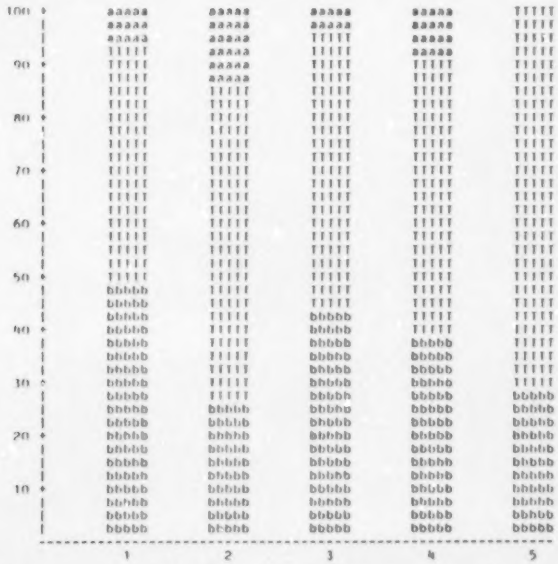
RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY-PIK

BAR CHART OF SUMS

TASK_PCT SUM

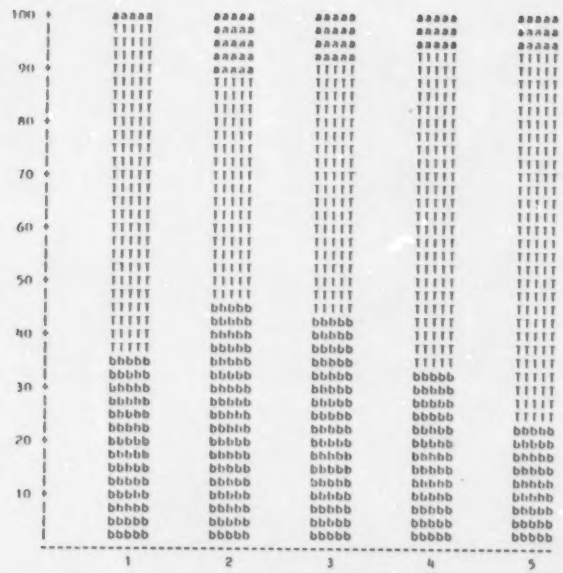


RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

BAR CHART OF SUMS

TASK_PCT SUM



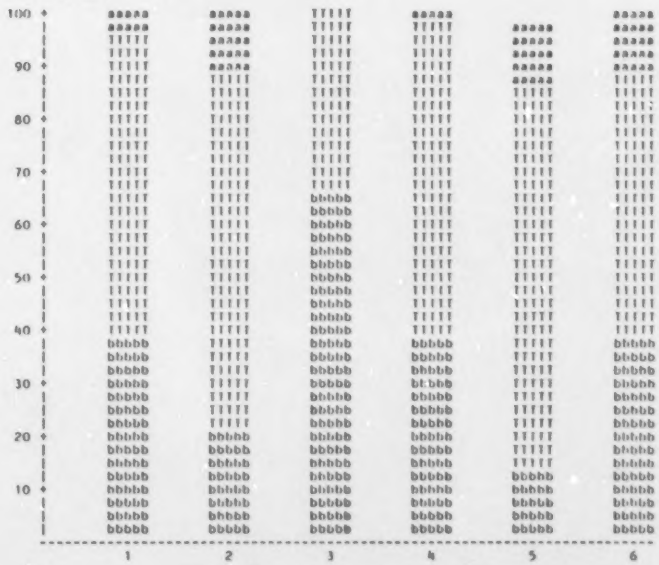
RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY-PIK

BAR CHART OF SUMS

TASK_PCT SUM



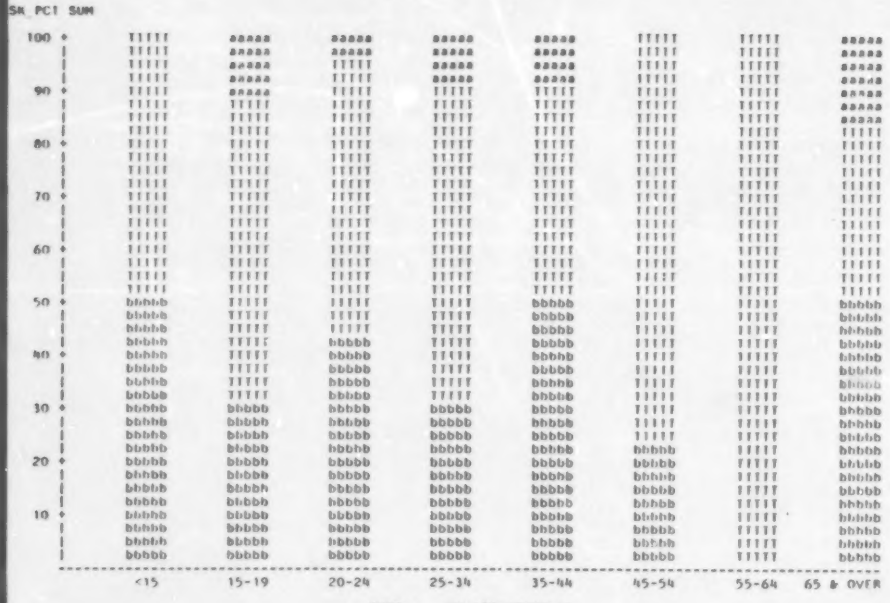
RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=PIK

BAR CHART OF SUMS

SK_PCT SUM



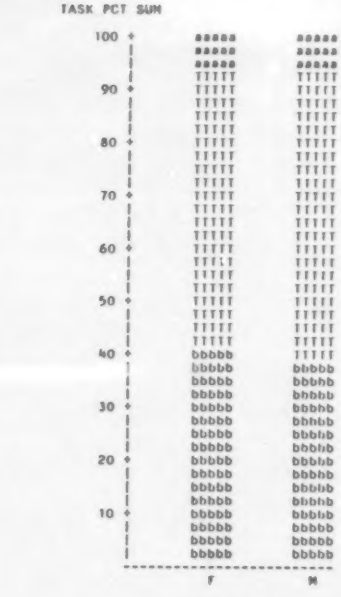
RQ54 MY AGE GROUP IS

SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

LIBRARY=PIK

BAR CHART OF SUMS

TASK PCT SUM



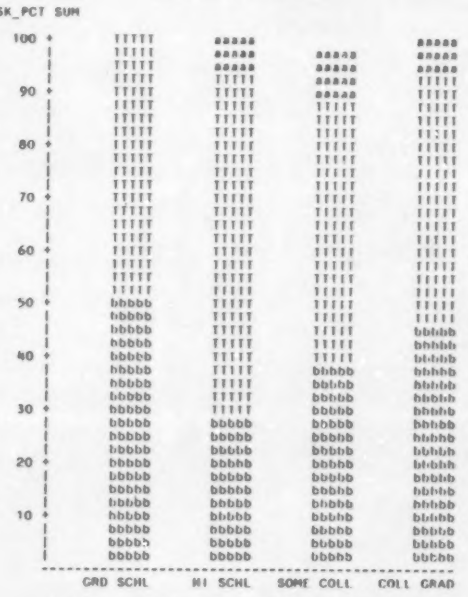
RQ55 SEX

SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

LIBRARY=PIK

BAR CHART OF SUMS

TASK_PCT SUM

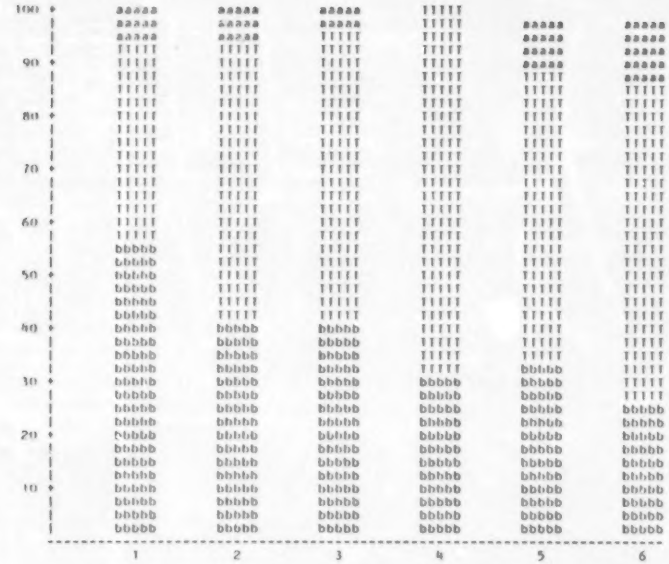


RQ56 CURRENT OR HIGHEST GRADE COMPLETED

SYMBOL TASK
b book
SYMBOL TASK
T Topic
SYMBOL TASK
a author

BAR CHART OF SUMS

TASK_PCT SUM



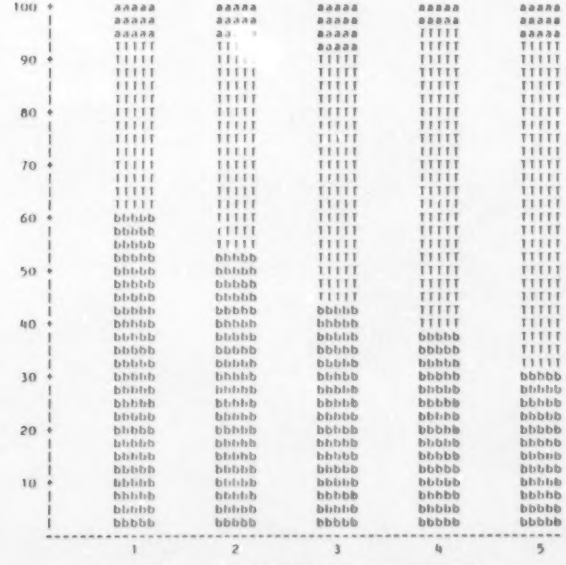
RQ48 I COME TO THIS LIBRARY

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=SYR

BAR CHART OF SUMS

TASK_PCT SUM

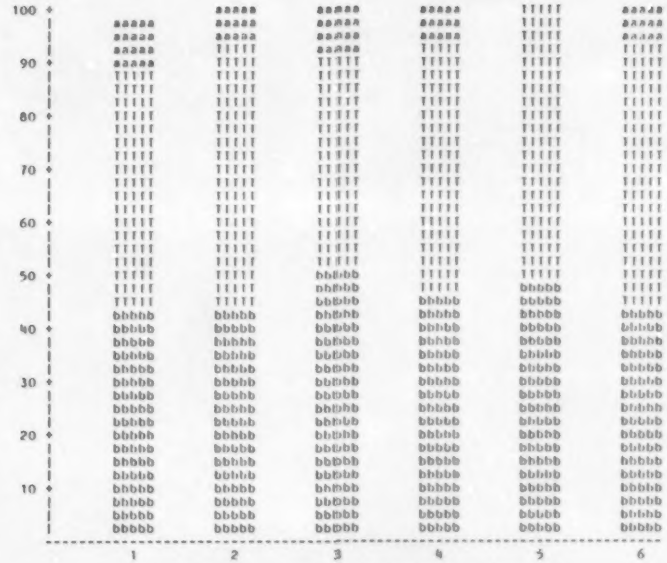


RQ50 I USE LIB'S BK CRD OR MICRO CAT

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

BAR CHART OF SUMS

TASK_PCT SUM



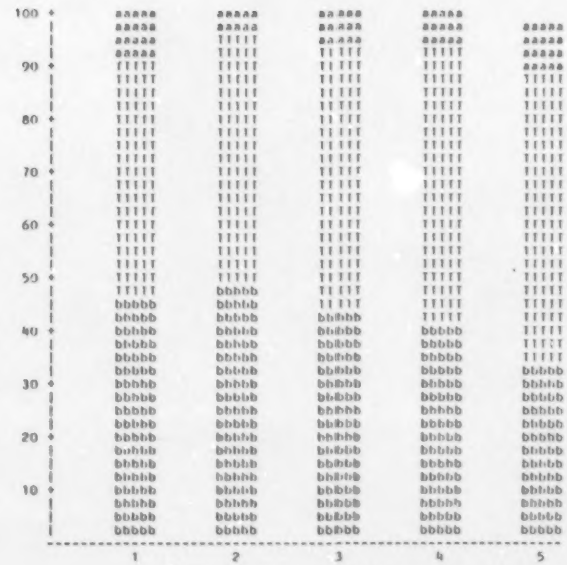
RQ51 I USE ANOTHER COMPUTER SYSTEM

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=SYR

BAR CHART OF SUMS

TASK_PCT SUM



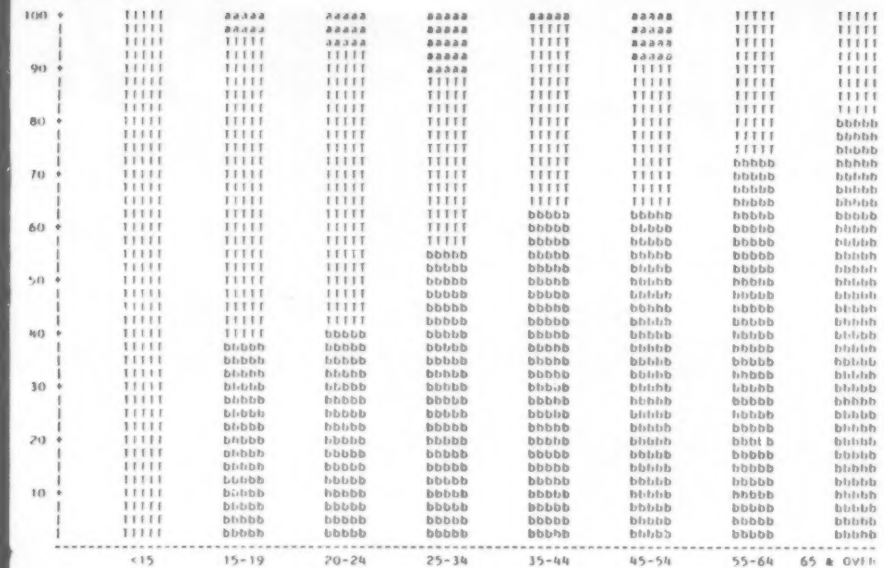
RQ49 I USE THIS COMPUTER CATALOG

SYMBOL	TASK	SYMBOL	TASK	SYMBOL	TASK
b	book	T	Topic	a	author

LIBRARY=SYR

BAR CHART OF SUMS

TASK PCT SUM



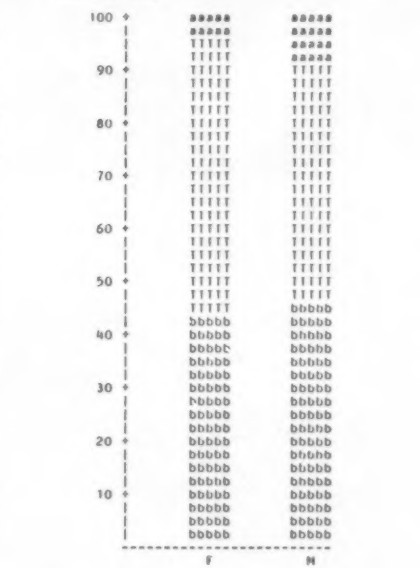
RQ54 MY AGE GROUP IS

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

LIBRARY=SYR

BAR CHART OF SUMS

TASK PCT SUM



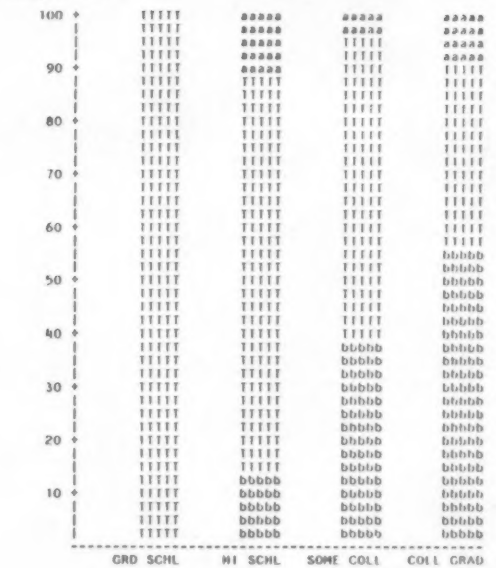
RQ55 SEX

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

LIBRARY=SYR

BAR CHART OF SUMS

TASK PCT SUM



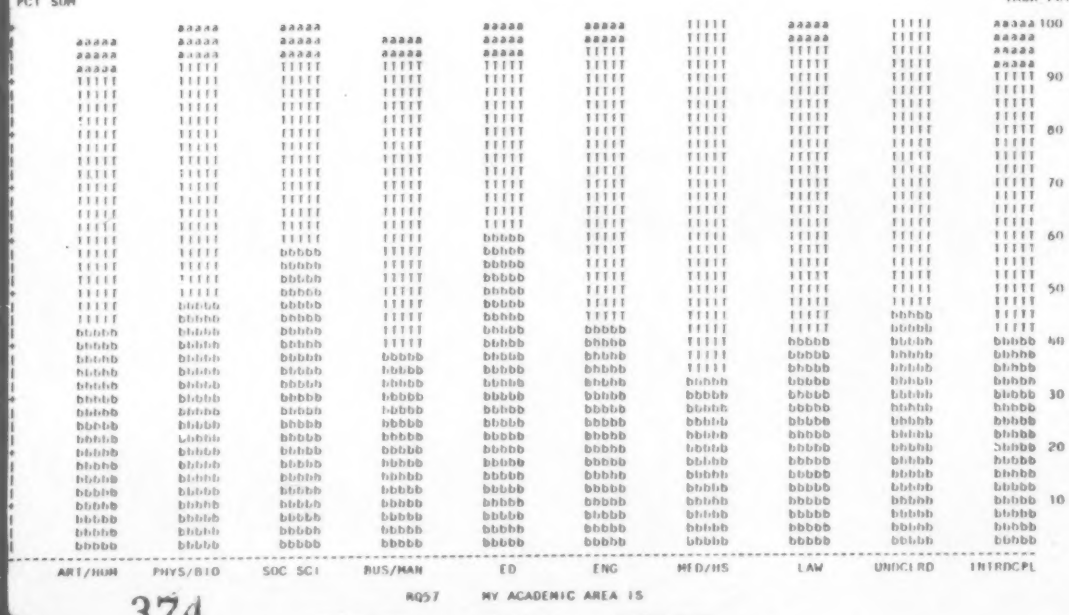
RQ56 CURRENT OR HIGHEST GRADE COMPLETED

SYMBOL TASK b book
SYMBOL TASK T Topic
SYMBOL TASK a author

LIBRARY=SYR

BAR CHART OF SUMS

PCT SUM



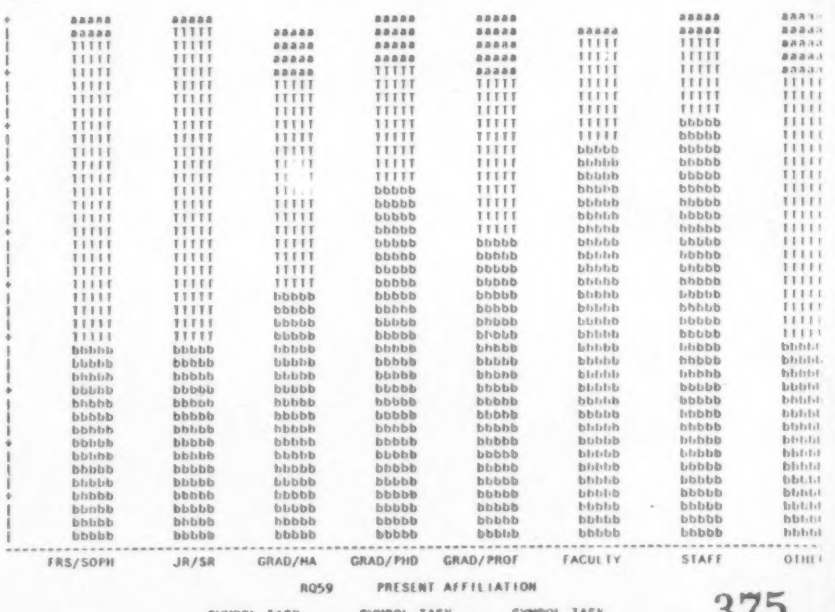
RQ57 MY ACADEMIC AREA IS

SYMBOL TASK
SYMBOL TASK
SYMBOL TASK

LIBRARY=SYR

BAR CHART OF SUMS

TASK PCT SUM



RQ59 PRESENT AFFILIATION

SYMBOL TASK
SYMBOL TASK T Topic
SYMBOL TASK a author